

2017
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JAMECO[®]

ELECTRONICS



RIISING TO NEW HEIGHTS

FEATURED PRODUCTS

120 & 220VAC Tubeaxial Fans



COMMONWEALTH™

*Web Code: ABJ

Fans and Accessories on pages 84-88

Here are some of our most popular AC tubeaxial fans. Select from multiple manufacturers and a variety of specifications.

| Part No. | Manufacturer | Mfr. Part No. | Voltage (VAC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing | Connection | Pricing | | |
|----------|---------------|-------------------|---------------|---------------------|----------------|---------|------------|---------|---------|---------|
| | | | | | | | | 1 | 10 | 100 |
| 213867 | Fulltech | UF-60D11HBWH-R | 120 | 60 x 60 x 30 | 10.2 | Ball | 12" Leads | \$17.95 | \$16.49 | \$14.49 |
| 300600 | Fulltech | UF80A11BWH-R | 120 | 80 x 80 x 38 | 29 | Ball | 12" Leads | 15.95 | 14.49 | 11.49 |
| 2135275 | Common Wealth | FP-108JC | 120 | 92 x 92 x 38 | 45 | Sleeve | 12" Leads | 13.95 | 12.49 | 9.95 |
| 2230379 | EBM Pabst | 4800N | 120 | 120 x 120 x 38 | 57.1 | Sleeve | Terminals | 14.95 | 13.49 | 10.95 |
| 102884 | Sunon | SP100A-1123XBT.GN | 120 | 120 x 120 x 38 | 117 | Ball | Terminals | 14.95 | 13.95 | 11.95 |
| 2230141 | Fulltech | UF13A11BTH | 120 | 127 x 127 x 38 | 120 | Ball | Terminals | 19.95 | 17.95 | 14.49 |
| 2230117 | Adda | AA8252HB-AT | 220 | 80 x 80 x 25 | 21 | Ball | Terminals | 12.95 | 11.95 | 9.95 |
| 303459 | Sunon | DP200A-2123XBL | 220 | 120 x 120 x 38 | 117 | Ball | 12" Leads | 15.95 | 14.95 | 12.95 |
| 2230424 | Common Wealth | FP-108EX(S-1) | 220 | 172 x 150 x 51 | 210 | Ball | Terminals | 34.95 | 31.49 | 24.95 |
| 2258419 | Fulltech | UF-12A1223BWH | 115/230 | 120 x 120 x 38 | 92/106 | Ball | 12" Leads | 15.95 | 14.49 | 11.59 |

NEW
MARKED IN PINK



2230379



High Efficiency Compact Enclosed Power Supplies

*Web Code: LRL

Enclosed Power Supplies on pages 104-107

These compact power supplies are rated for household appliances, industrial automation machinery, industrial control systems, mechanical and electrical equipment and electronic instruments.

- AC input selectable by switch • LRS-150F is full range input, auto-switching
- No load power consumption <0.5W • Cooling by free air convection • Compact 1U low profile

| Part No. | Mfr. Part No. | Output | | Size (L" X W" X H") | Ripple & Noise (mV p-p)* | Load Reg. (±%) | Line Reg. (±%) | Eff. (%) | Pricing | |
|----------|---------------|-------------------|----------|---------------------|--------------------------|----------------|----------------|----------|---------|---------|
| | | Voltage @ Current | Pwr. (W) | | | | | | 1 | 10 |
| 2257774 | LRS-150F-5 | +5V @ 0-22A | 110 | 6.3 x 2.7 x 1.5 | 100 | 0.5 | 0.5 | 85 | \$23.49 | \$19.95 |
| 323821 | RS-150-5 | +5V @ 0-26A | 130 | 7.8 x 3.9 x 1.5 | 80 | 1 | 0.5 | 78 | 23.95 | 20.95 |
| 2257723 | LRS-150-12 | +12V @ 0-12.5A | 150 | 6.3 x 2.7 x 1.5 | 150 | 0.5 | 0.5 | 87.5 | 19.95 | 17.49 |
| 2257782 | LRS-150F-12* | +12V @ 0-12.5A | 150 | 6.3 x 2.7 x 1.5 | 150 | 0.5 | 0.5 | 87.5 | 22.49 | 18.95 |
| 323839 | RS-150-12 | +12V @ 0-12.5A | 150 | 7.8 x 3.9 x 1.5 | 150 | 0.5 | 0.5 | 83 | 23.95 | 20.95 |
| 2257731 | LRS-150-15 | +15V @ 0-10A | 150 | 6.3 x 2.7 x 1.5 | 150 | 0.5 | 0.5 | 88.5 | 19.95 | 17.49 |
| 2257791 | LRS-150F-15* | +15V @ 0-10A | 150 | 6.3 x 2.7 x 1.5 | 150 | 0.5 | 0.5 | 89 | 22.49 | 18.95 |
| 323847 | RS-150-15 | +15V @ 0-10A | 150 | 7.8 x 3.9 x 1.5 | 120 | 0.5 | 0.5 | 84 | 23.95 | 20.95 |
| 2257740 | LRS-150-24 | +24V @ 0-6.5A | 156 | 6.3 x 2.7 x 1.5 | 200 | 0.5 | 0.5 | 89 | 18.95 | 15.95 |
| 2257803 | LRS-150F-24* | +24V @ 0-6.5A | 156 | 6.3 x 2.7 x 1.5 | 200 | 0.5 | 0.5 | 89 | 21.49 | 17.95 |
| 323855 | RS-150-24 | +24V @ 0-6.5A | 156 | 7.8 x 3.9 x 1.5 | 120 | 0.5 | 0.5 | 86 | 24.95 | 22.49 |
| 2257766 | LRS-150-48 | +48V @ 0-3.3A | 158.4 | 6.3 x 2.7 x 1.5 | 200 | 0.5 | 0.5 | 90 | 19.95 | 17.49 |
| 2257820 | LRS-150F-48* | +48V @ 0-3.3A | 158.4 | 6.3 x 2.7 x 1.5 | 200 | 0.5 | 0.5 | 90 | 22.49 | 18.95 |
| 323863 | RS-150-48 | +48V @ 0-3.3A | 158.4 | 7.8 x 3.9 x 1.5 | 200 | 0.5 | 0.5 | 87 | 24.95 | 22.49 |



RS-150



LRS-150

NEW
MARKED IN PINK

12-Button and 16-Button Keypads with Matrix Output

Keypads are great for alarm systems, kiosks, data entry, or industrial control panels. These keypads are in a matrix configuration so each of the buttons can be read from the single 8-pin header. The 12-button keypads look just like a telephone pad with numbers 0-9, star and pound, and the 16-button keypads have additional letters A through D.

Keypads on page 74

| Part No. | Description | 1 | 10 | 100 |
|----------|--|--------|--------|--------|
| 2237802 | 3x4 matrix 12-button keypad, 8-pin, 0.1" pitch, 12VDC @ 20mA, 3" x 2.2" x 0.6" | \$4.95 | \$4.49 | \$3.95 |
| 2131055 | 4x4 matrix 16-button keypad, 8-pin, 0.1" pitch, 24VDC @ 20mA, 2.5" x 2.6" x 0.4" | 7.25 | 6.49 | 5.75 |
| 169245 | 4x4 matrix 16-button keypad, 8-pin, 0.1" pitch, 24VDC @ 20mA, 3" x 2.8" x 0.6" | 9.25 | 8.25 | 7.49 |

JAMECO
ValuePro

*Web Code: XBA



2237802



Wireless Internet of Things and Electromechanical Products

The Feather HUZZAH ESP8266 board is light, small and designed for untethered projects using the built-in ESP8266 WiFi module. The IoT starter kit enhances the Feather with some elements like sensors and LEDs to experiment with your first IoT project. And don't forget a slip ring for your "rolly" projects, so they can freely twist and turn without tangling up the wires.

Arduino Boards & Sensors on pages 142-144

| Part No. | Mfr. Part No. | Description | Price |
|----------|---------------|--|---------|
| 2240083 | 2821 | Feather HUZZAH MCU, ESP8266 WiFi, LiPo charge circuit, 9 GPIO, 4MB flash, 2" x 0.9" x 0.3" | \$17.95 |
| 2240091 | 2680 | IoT starter kit w/ Feather MCU, PIR, magnetic & vibration sensor, plus more | 39.95 |
| 2240075 | 736 | Slip ring with flange, 22mm dia., 6 wires, 240V/2A | 15.95 |
| 2240139 | 328 | 3.7V 2500mAh lithium ion polymer battery. 2mm pitch JST connector | 18.95 |

NEW
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*Web Code: ARD



2240091

3MHz Direct Digital Synthesis Signal Generator with Voltage Display

Test Equipment on pages 113-117

This economical function generator with high accuracy and high stability output is based on Direct Digital Synthesis technology and offers a frequency range of 3MHz and you can select Sine, Square, Triangle and TTL waveform outputs. The DDS platform also provides user friendly operation.

- Freq. range: 0.1Hz - 3MHz (sine, square); 0.1Hz - 1MHz (triangle) • Attenuator: -40dB ±1dB • Impedance: 50Ω ±10%
- 6-digit LED display • Low distortion Sine wave: -55 dBc, 0.1 Hz to 200 kHz • Constant current source circuit

| Part No. | Mfr. | Mfr. Part No. | Bandwidth | # of waveforms | Price |
|----------|--------|---------------|-----------|----------------|----------|
| 2244050 | Instek | SFG-1013 | 3MHz | 4 | \$189.95 |

NEW
MARKED IN PINK



Rising to New Heights

Electronics is certainly rising to new heights. In 1973, Motorola engineer Martin Cooper made the first cell phone call, tipping off an era of handheld mobile devices. Forty-three years later, with electronics more popular than ever, we find ourselves witnessing changes in the era of drones.

Our cover photo, shot by a drone, captures the sun over Ohio farmland. Uses for drones are becoming more diverse with machines being developed for everything from farm use to search-and-rescue efforts. Quite literally, the electronics industry is rising to new heights.

Enter **Web Code DRN** in the Jameco.com search box to see the drones we have for sale but don't stop there in your personal quest to take technology to new heights.

REACH FOR JAMECO FIRST

The Jameco Difference

Customer Service

We work hard to provide the best customer service in the industry. Our management team's first priority is listening and responding to customer feedback. You can email the management team directly at Management@Jameco.com with your feedback and expect a prompt and personal response.



Low Price Options

We've designed low prices into our process. Jameco carries three low-priced options from Brand Names, to Jameco's House Brands to Jameco Special Buys. We are franchised distributors for over 300 Brand Name products and we actively price these products below our competitors. We also are famous for our Jameco House Brands (ValuePro, ReliaPro, BenchPro and KitPro) where we provide the same core functionality at a fraction of the price. We take low pricing a step further with our Special Buys. Look for green price coding throughout the catalog for our best priced products.



| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Catalog Tools

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Enter the web code in the product search box

***Network ICs — Enter Web Code JEQ**



Search on Web Code DRN to see our full collection of drones on Jameco.com.

Jameco stands ready to go along with you for the ride, as it has for the past 43 years. We'll do our best to have the products you need, at a price we think you'll like. We strive to ship the same day you order and we're a company that puts its people first. That means your phone calls and emails get answered by real people.

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7400, 74C, 74F & 74HC Series

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

7400 Series

*Web Code: XAG

| Part No. | *Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------|-------------|--------|---|--------|--------|--------|
| 286993 | + | 74F02 | DIP-14 | Quad 2-input pos. NOR gate | \$.29 | \$.25 | \$.19 |
| 48979 | + | 7400** | DIP-14 | Quad 2-input pos. NAND gate | 1.29 | 1.09 | .79 |
| 910901 | TI | SN7400N | DIP-14 | Quad 2-input pos. NAND gate | 1.39 | 1.19 | .89 |
| 49015 | + | 7402* | DIP-14 | Quad 2-input pos. NOR gate | 1.95 | 1.75 | 1.49 |
| 49040 | + | 7404** | DIP-14 | Hex inverter | 1.75 | 1.49 | 1.25 |
| 49074 | + | 7405* | DIP-14 | Hex inverter (O.C.) | 1.39 | 1.19 | .89 |
| 49091 | + | 7406** | DIP-14 | Hex inverter buffer/driver | .79 | .69 | .55 |
| 49120 | + | 7407** | DIP-14 | Hex buffer/driver | .75 | .65 | .55 |
| 49146 | + | 7408* | DIP-14 | Quad 2-input pos. AND gate | 2.95 | 2.75 | 2.49 |
| 49189 | + | 7410* | DIP-14 | Triple 3-input pos. NAND gate | 1.49 | 1.35 | 1.19 |
| 49402 | + | 7413 | DIP-14 | Dual 4-input pos. NAND gate | 1.09 | .99 | .89 |
| 49437 | + | 7414* | DIP-14 | Hex schmitt-trigger inverter | 1.95 | 1.75 | 1.49 |
| 49630 | + | 7416* | DIP-14 | Hex inverter buffer/driver (O.C.) | 1.39 | 1.19 | .85 |
| 49728 | + | 7417* | DIP-14 | Hex buffer/driver (O.C. hi-volt.) | 1.39 | 1.19 | .95 |
| 50008 | + | 7420* | DIP-14 | Dual 4-input NAND gate | 1.19 | 1.09 | .95 |
| 50139 | + | 7427* | DIP-14 | Triple 3-input NOR gate | 1.09 | .99 | .89 |
| 50198 | + | 7428 | DIP-14 | Quad 2-input pos. NAND gate | .49 | .39 | .19 |
| 50227 | + | 7430* | DIP-14 | 8-input NAND gate | .69 | .59 | .49 |
| 50235 | + | 7432* | DIP-14 | Quad 2-input pos. OR gate | 1.95 | 1.75 | 1.45 |
| 50307 | + | 7437 | DIP-14 | Quad 2-input pos. NAND buffer | .49 | .45 | .39 |
| 50315 | + | 7438* | DIP-14 | Quad 2-input NAND buffer | .59 | .49 | .39 |
| 50374 | + | 7442 | DIP-16 | 4 line BCD to 10 line decimal decoder | 1.75 | 1.49 | 1.25 |
| 50403 | + | 7445 | DIP-16 | BCD-to-decimal decoder/driver | 1.95 | 1.75 | 1.49 |
| 50420 | + | 7447* | DIP-16 | BCD-to-7 seg. decoder/driver | 2.75 | 2.49 | 2.25 |
| 50534 | + | 7473 | DIP-14 | Dual J-K neg-edge-triggered flip-flop ... | 2.49 | 2.25 | 1.95 |
| 50551 | + | 7474** | DIP-14 | Dual D-type flip-flop | 1.95 | 1.75 | 1.49 |
| 50577 | + | 7475 | DIP-16 | 4-bit bistable latch | 2.75 | 2.49 | 2.25 |
| 50593 | + | 7476 | DIP-16 | Dual J-K pos-edge-triggered flip-flop .. | 4.95 | 4.49 | 3.95 |
| 50631 | + | 7483 | DIP-16 | 4-bit binary full adder | 3.95 | 3.49 | 2.95 |
| 50657 | + | 7485* | DIP-16 | 4-bit magnitude comparator | 2.49 | 2.25 | 1.95 |
| 50665 | + | 7486 | DIP-14 | Quad 2-input exclusive OR gate | 2.25 | 2.09 | 1.95 |
| 50681 | + | 7489 | DIP-16 | 64-bit read/write memory | 3.95 | 3.75 | 3.49 |
| 50690 | + | 7490 | DIP-14 | Asynchronous decade counter | 3.95 | 3.49 | 2.95 |
| 50745 | + | 7493 | DIP-14 | 4-bit binary counter | 2.25 | 1.95 | 1.75 |
| 50770 | + | 7495 | DIP-14 | 4-bit parallel-access shift register ... | 1.95 | 1.75 | 1.49 |
| 49234 | + | 74107* | DIP-14 | Dual J-K flip-flop with clear | 1.19 | 1.09 | .95 |
| 49322 | + | 74121* | DIP-14 | Monostable multivibrator | 3.49 | 2.95 | 2.65 |
| 49357 | + | 74123* | DIP-16 | Dual monostable multivibrator | 3.95 | 3.49 | 2.95 |
| 49373 | + | 74125 | DIP-14 | Tri-state quad bus buffer | .99 | .89 | .79 |
| 49509 | + | 74150 | DIP-24 | 1-of-16 data selector/multiplexer ... | 2.95 | 2.75 | 2.49 |
| 49525 | + | 74151* | DIP-16 | 1-of-8 data selector/multiplexer | .79 | .69 | .45 |
| 49550 | + | 74153* | DIP-16 | Dual 4-to-1 data selector/multiplexer ... | .89 | .69 | .59 |
| 49568 | + | 74154 | DIP-24 | 4-to-16 line decoder/demultiplexer | 3.25 | 2.95 | 2.75 |
| 49584 | + | 74155 | DIP-16 | Dual 2-to-4 line decoder/demultiplexer ... | .99 | .79 | .59 |
| 49605 | + | 74157* | DIP-16 | Quad 2-to-1 line data selector | .99 | .89 | .79 |
| 49648 | + | 74160* | DIP-16 | Synchronous decade counter | .89 | .79 | .69 |
| 49664 | + | 74161 | DIP-16 | 4-bit synchronous binary counter | .89 | .79 | .69 |
| 49681 | + | 74164 | DIP-14 | 8-bit serial shift register | .79 | .69 | .49 |
| 49699 | + | 74165 | DIP-16 | 8-bit serial shift register | .29 | .25 | .19 |
| 49779 | + | 74174* | DIP-16 | Hex D-type flip-flop with clear | 1.09 | .95 | .79 |
| 49795 | + | 74175* | DIP-16 | Quad D-type flip-flop with clear | .99 | .89 | .79 |
| 49832 | + | 74180 | DIP-14 | 9-bit odd/even parity generator/checker .. | 1.95 | 1.75 | 1.49 |
| 49883 | + | 74189 | DIP-16 | Tri-state 64-bit RAM | 3.95 | 3.49 | 2.95 |
| 49904 | + | 74191 | DIP-16 | Synch. 4-bit up/down binary counter ... | 1.75 | 1.49 | 1.25 |
| 49912 | + | 74192 | DIP-16 | Synch. 4-bit up/down binary counter ... | 3.95 | 3.75 | 3.49 |
| 49939 | + | 74193 | DIP-16 | Synch. 4-bit up/down binary counter ... | 2.49 | 2.25 | 1.95 |
| 49955 | + | 74194 | DIP-16 | 4-bit bi-directional shift register | 1.95 | 1.75 | 1.49 |
| 50286 | + | 74367 | DIP-16 | Tri-state hex bus driver | .49 | .45 | .39 |
| 50294 | + | 74368 | DIP-16 | Tri-state hex bus driver | .59 | .49 | .39 |

*10 pcs./ **20 pcs. in 7400 series IC cabinet kit, below right

*74AC/ACT/AHC/ALS Series Online — Enter Web Code CBA

74C Series

Please Note: Manufacturer may vary

*Web Code: RAG

| Part No. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------------|--------|---|--------|--------|--------|
| 44257 | 74C14 | DIP-14 | Hex schmitt-trig. inverter (CD40106) .. | \$2.75 | \$2.49 | \$2.25 |
| 44409 | 74C374 | DIP-20 | Octal D-type flip-flop | 1.49 | 1.19 | .95 |
| 44564 | 74C922 | DIP-18 | 16-key keyboard encoder | 8.95 | 7.95 | 6.95 |
| 44572 | 74C923 | DIP-20 | 20-key keyboard encoder | 7.95 | 7.25 | 6.49 |
| 44599 | 74C926 | DIP-18 | 4-digit counter w/ 7-seg. output driver | 13.95 | 12.95 | 11.95 |

74F Series

Please Note: Manufacturer may vary

*Web Code: CEN

| Part No. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------------|--------|----------------------------------|--------|--------|--------|
| 287013 | 74F08N | DIP-14 | Quad 2-input pos. AND gate | \$.39 | \$.35 | \$.25 |
| 287048 | 74F32N | DIP-14 | Quad 2-input pos. OR gate | .29 | .25 | .19 |
| 287056 | 74F74N | DIP-14 | Dual D-type flip-flop | .39 | .35 | .25 |

74HC Series

*Web Code: SDJ

| Part No. | *Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------|-------------|--------|--|--------|--------|--------|
| 45161 | + | 74HC00 | DIP-14 | Quad 2-input pos. NAND gate .. | \$.39 | \$.29 | \$.19 |
| 906339 | NXP | 74HC00N | DIP-14 | Quad 2-input pos. NAND gate | .79 | .69 | .59 |
| 45188 | + | 74HC02 | DIP-14 | Quad 2-input pos. NOR gate | .39 | .29 | .19 |
| 45209 | + | 74HC04 | DIP-14 | Hex inverter | .39 | .25 | .19 |
| 906574 | NXP | 74HC04N | DIP-14 | Hex inverter | .99 | .89 | .79 |
| 88081 | + | 74HC05 | DIP-14 | Hex inverter (O.C.) | .29 | .19 | .15 |
| 45225 | + | 74HC08 | DIP-14 | Quad 2-input pos. AND gate | .39 | .29 | .19 |
| 45364 | + | 74HC14 | DIP-14 | Hex schmitt-trigger inverter | .45 | .35 | .25 |
| 45794 | + | 74HC32 | DIP-14 | Quad 2-input pos. OR gate | .39 | .29 | .19 |
| 46130 | + | 74HC74 | DIP-14 | Dual D-type flip-flop | .35 | .25 | .19 |
| 46181 | + | 74HC86 | DIP-14 | Quad 2-input exclusive OR gate ... | .35 | .25 | .19 |
| 45305 | + | 74HC125 | DIP-14 | Tri-state quad bus buffer | .29 | .25 | .19 |
| 45321 | + | 74HC132 | DIP-14 | Quad 2-input NAND schmitt trigger .. | .29 | .22 | .17 |
| 45330 | + | 74HC138 | DIP-16 | 3-to-8 line decoder/demultiplexer .. | .35 | .25 | .19 |
| 897049 | TI | CD74HC147E | DIP-16 | Encoder 9-to-4 priority CMOS | .39 | .35 | .25 |
| 45399 | + | 74HC153 | DIP-16 | Dual 4-to-1 data selector/multiplexer .. | .39 | .35 | .25 |
| 45401 | + | 74HC154N | DIP-24 | 4-to-16 line decoder (0.3" wide) .. | 2.25 | 1.79 | 1.45 |
| 45452 | + | 74HC161 | DIP-16 | 4-bit synchronous binary counter ... | .29 | .25 | .19 |
| 45487 | + | 74HC164 | DIP-14 | 8-bit serial shift register | .35 | .25 | .17 |
| 251328 | TI | SN74HC164N | DIP-14 | 8-bit serial shift register | .39 | .29 | .19 |
| 45495 | + | 74HC165 | DIP-16 | 8-bit parallel load shift register | .39 | .29 | .22 |
| 251336 | TI | SN74HC165N | DIP-16 | 8-bit parallel load shift register ... | .45 | .35 | .25 |
| 45541 | + | CD74HC192E | DIP-16 | Synch. 4-bit up/down decade counter ... | .59 | .49 | .39 |
| 45655 | + | 74HC244 | DIP-20 | Tri-state octal buffer/line driver ... | .39 | .35 | .22 |
| 45671 | + | 74HC245 | DIP-20 | Tri-state octal buffer/line driver ... | .45 | .29 | .22 |
| 45743 | + | 74HC273 | DIP-20 | Octal D-type flip-flop | .29 | .25 | .19 |
| 45831 | + | 74HC373 | DIP-20 | Octal D-type transparent latch | .45 | .35 | .25 |
| 45858 | + | 74HC374 | DIP-20 | Octal D-type flip-flop | .45 | .35 | .22 |
| 46050 | + | 74HC541 | DIP-20 | Tri-state octal buffer/line driver | .39 | .29 | .22 |
| 46076 | + | 74HC573 | DIP-20 | 3-st. octal D-type transparent latch ... | .45 | .35 | .25 |
| 46084 | + | 74HC574 | DIP-20 | Tri-state octal D-type flip-flop | .45 | .35 | .25 |
| 46105 | + | 74HC595 | DIP-16 | 8-bit shift register w/ output latch ... | .45 | .35 | .25 |
| 251643 | TI | SN74HC595N | DIP-16 | 8-bit shift register w/ output latch ... | .49 | .39 | .29 |
| 911189 | NXP | 74HC595N | DIP-16 | 8-bit shift register w/ output latch ... | 1.09 | .99 | .89 |
| 45891 | + | 74HC4017 | DIP-16 | Hi speed decade counter/divider ... | .45 | .39 | .29 |
| 251660 | TI | CD74HC4017E | DIP-16 | Hi speed decade counter/divider ... | .49 | .45 | .35 |
| 45920 | + | 74HC4040 | DIP-16 | 12-bit asynch. binary counter | .55 | .45 | .29 |
| 251707 | TI | CD74HC4051E | DIP-16 | Single 8-ch multi/demultiplexer ... | .49 | .39 | .29 |

*ALVC Series Online — Enter Web Code SVC

7400 Series IC Kit

*Web Code: CKS

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611) and 30 adhesive labels for drawers to identify parts in kit
10 each: 7402, 7405, 7408, 7410, 7414, 7416, 7417, 7420, 7427, 7430, 7432, 7438, 7447, 7485, 74107, 74121, 74123, 74132, 74151, 74153, 74157, 74160, 74174, 74175, 74279
20 each: 7400, 7404, 7406, 7407, 7474



| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|----------------------|------------|----------|----------|
| 84953 | 350 pcs. 7400 IC kit | 6.2 | \$219.95 | \$199.95 |

* NXP = NXP/Philips Semiconductor | TI = Texas Instruments | + Major Brands

74HCT & 74LS Series

74HCT Series

Please Note: Manufacturer may vary

*Web Code: SAG

| Part No. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------------|--------|---|--------|--------|--------|
| 44871 | 74HCT00 | DIP-14 | Quad 2-input pos. NAND gate | \$.35 | \$.25 | \$.19 |
| 44898 | 74HCT04 | DIP-14 | Hex inverter | .39 | .25 | .17 |
| 44901 | 74HCT08 | DIP-14 | Quad 2-input pos. AND gate | .35 | .25 | .19 |
| 44935 | 74HCT14 | DIP-14 | Hex schmitt-trigger inverter | .39 | .35 | .25 |
| 913299 | 74HCT32N | DIP-14 | Quad 2-input OR gate, I-temp. | .49 | .45 | .39 |
| 45137 | 74HCT74 | DIP-14 | Dual D-type flip-flop | .39 | .29 | .19 |
| 45145 | 74HCT86 | DIP-14 | Quad 2-input exclusive OR gate | .49 | .39 | .35 |
| 44927 | 74HCT138 | DIP-16 | 3-to-8 decoder/demultiplexer | .49 | .39 | .29 |
| 44960 | 74HCT161 | DIP-16 | 4-bit synchronous binary counter | .29 | .25 | .19 |
| 45014 | 74HCT240 | DIP-20 | Octal buffer/line driver | .29 | .19 | .15 |
| 45031 | 74HCT245 | DIP-20 | Tri-state octal bus transceiver | .49 | .35 | .25 |
| 45065 | 74HCT373 | DIP-20 | Octal D-type transparent latch | .49 | .35 | .25 |
| 109778 | 74HCT540 | DIP-20 | Tri-state octal buffer/line driver | .29 | .25 | .19 |
| 45090 | 74HCT573 | DIP-20 | 3-st. octal D-type transparent latch | .45 | .39 | .29 |
| 45102 | 74HCT574 | DIP-20 | Tri-state octal D-type flip-flop | .29 | .22 | .15 |
| 45129 | 74HCT688 | DIP-20 | 8-bit magnitude comparator | .79 | .69 | .45 |

74LS Series

*Web Code: NBS

| Part No. | *Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------|-------------|--------|--|--------|--------|--------|
| 46252 | + | 74LS00** | DIP-14 | Quad 2-input pos. NAND gate | \$.45 | \$.39 | \$.35 |
| 283725 | TI | SN74LS00N | DIP-14 | Quad 2-input pos. NAND gate | .95 | .85 | .69 |
| 46287 | + | 74LS02** | DIP-14 | Quad 2-input pos. NOR gate | .49 | .39 | .25 |
| 283741 | TI | SN74LS02N | DIP-14 | Quad 2-input pos. NOR gate | .55 | .45 | .29 |
| 46308 | + | 74LS03 | DIP-14 | Quad 2-input pos. NAND gate (O.C.) .. | .29 | .25 | .19 |
| 46316 | + | 74LS04** | DIP-14 | Hex inverter | .49 | .39 | .35 |
| 283792 | TI | SN74LS04N | DIP-14 | Hex inverter | .55 | .45 | .39 |
| 46341 | + | 74LS05* | DIP-14 | Hex inverter (O.C.) | .69 | .59 | .49 |
| 46359 | + | 74LS06 | DIP-14 | Hex inverter buffer/driver | .75 | .65 | .55 |
| 46367 | + | 74LS07 | DIP-14 | Hex buffer/driver | .79 | .69 | .55 |
| 46375 | + | 74LS08** | DIP-14 | Quad 2-input pos. AND gate | .45 | .39 | .35 |
| 295401 | TI | SN74LS08N | DIP-14 | Quad 2-input pos. AND gate..... | .49 | .45 | .39 |
| 46404 | + | 74LS10* | DIP-14 | Triple 3-input pos. NAND gate | .59 | .49 | .39 |
| 46439 | + | 74LS11* | DIP-14 | Triple 3-input pos. AND gate | .65 | .49 | .39 |
| 46640 | + | 74LS14* | DIP-14 | Hex schmitt-trigger inverter | .49 | .39 | .29 |
| 47095 | + | 74LS20* | DIP-14 | Dual 4-input NAND gate | .79 | .69 | .59 |
| 47108 | + | 74LS21 | DIP-14 | Dual 4-input AND gate | .59 | .49 | .35 |
| 47378 | + | 74LS27 | DIP-14 | Triple 3-input NOR gate | .99 | .79 | .65 |
| 47458 | + | 74LS30* | DIP-14 | 8-input NAND gate | .79 | .69 | .49 |
| 47466 | + | 74LS32** | DIP-14 | Quad 2-input pos. OR gate | .45 | .35 | .29 |
| 295515 | TI | SN74LS32N | DIP-14 | Quad 2-input pos. OR gate | .49 | .39 | .29 |
| 47693 | + | 74LS38 | DIP-14 | Quad 2-input NAND buffer | .69 | .59 | .49 |
| 47773 | + | 74LS42 | DIP-14 | 4 line BCD to 10 line decimal decoder .. | 1.95 | 1.59 | 1.39 |
| 47790 | + | 74LS47* | DIP-16 | BCD-to-7 seg. decoder/driver | 1.49 | 1.29 | 1.09 |
| 295582 | TI | SN74LS47N | DIP-16 | BCD-to-7 seg. decoder/driver | 1.55 | 1.35 | 1.15 |
| 47811 | + | 74LS48 | DIP-16 | BCD-to-7 seg. decoder/driver | 4.95 | 4.49 | 3.95 |
| 47992 | + | 74LS73* | DIP-14 | Dual J-K neg-edge-triggered flip-flop .. | 1.79 | 1.59 | 1.29 |
| 48004 | + | 74LS74** | DIP-14 | Dual D-type flip-flop | .49 | .39 | .25 |
| 295726 | TI | SN74LS74AN | DIP-14 | Dual D-type flip-flop | .55 | .45 | .29 |
| 48021 | + | 74LS75* | DIP-16 | 4-bit bi-stable latch | 1.89 | 1.59 | 1.29 |
| 48063 | + | 74LS83 | DIP-16 | 4-bit binary full adder | 2.19 | 1.99 | 1.79 |
| 48071 | + | 74LS85* | DIP-16 | 4-bit magnitude comparator | 1.19 | .99 | .79 |
| 48098 | + | 74LS86* | DIP-14 | Quad 2-input exclusive OR gate ... | .49 | .39 | .25 |
| 295751 | TI | SN74LS86AN | DIP-14 | Quad 2-input exclusive OR gate ... | .55 | .45 | .29 |
| 48119 | + | 74LS90* | DIP-14 | Asynchronous decade counter | 1.95 | 1.59 | 1.45 |
| 295769 | TI | SN74LS90N | DIP-14 | Asynchronous decade counter | 2.09 | 1.85 | 1.59 |
| 48143 | + | 74LS92 | DIP-14 | Divide-by-12 decade counter | 2.29 | 2.09 | 1.89 |
| 48151 | + | 74LS93* | DIP-14 | 4-bit binary counter | 1.75 | 1.39 | 1.25 |
| 295822 | TI | SN74LS93N | DIP-14 | 4-bit binary counter | 1.95 | 1.49 | 1.29 |

*10 pcs./ **20 pcs. in 74LS series IC cabinet kit, pg 4

74LS Series (Continued)

*Web Code: NBS

| Part No. | *Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------|-------------|--------|---|--------|--------|--------|
| 46412 | + | 74LS107 | DIP-14 | Dual J-K flip-flop with clear | \$1.39 | \$1.19 | \$1.09 |
| 46421 | + | 74LS109 | DIP-16 | Dual J-K bar flip-flop | 1.19 | 1.09 | .89 |
| 46447 | + | 74LS112 | DIP-16 | Dual J-K neg-edge-triggered flip-flop .. | .65 | .49 | .39 |
| 46471 | + | 74LS122 | DIP-14 | Retriggerable monostable multivib. | .69 | .59 | .49 |
| 46480 | + | 74LS123* | DIP-16 | Dual monostable multivibrator | .69 | .49 | .39 |
| 46501 | + | 74LS125* | DIP-14 | Tri-state quad bus buffer | .69 | .55 | .39 |
| 46527 | + | 74LS126 | DIP-14 | Tri-state quad bus buffer | .69 | .59 | .39 |
| 46551 | + | 74LS132 | DIP-14 | Quad 2-input NAND schmitt trigger .. | .29 | .25 | .19 |
| 46607 | + | 74LS138** | DIP-16 | 3-to-8 decoder/demultiplexer | .65 | .55 | .39 |
| 301233 | TI | SN74LS138N | DIP-16 | 3-to-8 decoder/demultiplexer | .69 | .59 | .45 |
| 46623 | + | 74LS139* | DIP-16 | Dual 2-to-4 line decoder/demultiplexer .. | .65 | .59 | .39 |
| 46666 | + | 74LS145 | DIP-16 | BCD-to-decimal decoder/driver | .89 | .75 | .59 |
| 46682 | + | 74LS148 | DIP-16 | 8-to-3 line priority encoder | 1.19 | .99 | .79 |
| 46703 | + | 74LS151* | DIP-16 | 1-to-8 data selector/multiplexer ... | .75 | .65 | .55 |
| 46720 | + | 74LS153 | DIP-16 | Dual 4-to-1 data selector/multiplexer .. | .75 | .65 | .55 |
| 46738 | + | 74LS154 | DIP-24 | 4-to-16 line decoder/demultiplexer .. | 4.95 | 4.49 | 4.25 |
| 46754 | + | 74LS155* | DIP-16 | Dual 2-to-4 line decoder/demultiplexer .. | 1.29 | 1.09 | .89 |
| 46771 | + | 74LS157* | DIP-16 | Quad 2-to-1 line data selector | .59 | .49 | .39 |
| 46800 | + | 74LS160 | DIP-16 | Synchronous decade counter | 2.49 | 2.25 | 2.05 |
| 46818 | + | 74LS161 | DIP-16 | 4-bit synchronous binary counter | .69 | .59 | .39 |
| 46842 | + | 74LS163 | DIP-16 | Synchronous 4-bit binary counter | .69 | .49 | .39 |
| 46851 | + | 74LS164 | DIP-14 | 8-bit serial shift register | .69 | .49 | .39 |
| 46877 | + | 74LS165 | DIP-16 | 8-bit parallel load shift register | .65 | .49 | .39 |
| 46906 | + | 74LS169 | DIP-16 | Synch. 4-bit binary up/down counter .. | 1.19 | .99 | .89 |
| 46922 | + | 74LS173 | DIP-16 | 4-bit D-type register w/ 3-state output .. | 1.19 | .99 | .69 |
| 46931 | + | 74LS174* | DIP-16 | Hex D-type flip-flop with clear | .75 | .65 | .55 |
| 46957 | + | 74LS175* | DIP-16 | Quad D-type flip-flop with clear | .69 | .59 | .45 |
| 46973 | + | 74LS181 | DIP-24 | Arithmetic logic unit/function generator .. | 3.95 | 3.49 | 3.25 |
| 46990 | + | 74LS190 | DIP-16 | Synchronous up/down decade counter .. | 3.49 | 3.25 | 2.75 |
| 47001 | + | 74LS191 | DIP-16 | Synch. 4-bit up/down binary counter .. | .89 | .79 | .59 |
| 47010 | + | 74LS192 | DIP-16 | Synch. 4-bit up/down decade counter .. | 3.49 | 3.25 | 2.95 |
| 47036 | + | 74LS193* | DIP-16 | Synch. 4-bit up/down binary counter .. | .89 | .79 | .69 |
| 47052 | + | 74LS194 | DIP-16 | 4-bit bi-directional shift register | 1.29 | 1.09 | .89 |
| 47061 | + | 74LS195 | DIP-16 | 4-bit parallel-access shift register | 1.95 | 1.75 | 1.49 |
| 47141 | + | 74LS240* | DIP-20 | Octal buffer/line driver | .69 | .55 | .45 |
| 47167 | + | 74LS241 | DIP-20 | Tri-state octal buffer/line driver | .69 | .59 | .49 |
| 47183 | + | 74LS244* | DIP-20 | Tri-state octal buffer/line driver | .65 | .55 | .45 |
| 308312 | TI | SN74LS244N | DIP-20 | Tri-state octal buffer/line driver | .69 | .59 | .49 |
| 47212 | + | 74LS245* | DIP-20 | Tri-state octal bus transceiver | .69 | .59 | .49 |
| 47247 | + | 74LS247 | DIP-16 | BCD to 7-seg. decoder/driver | 1.49 | 1.29 | 1.09 |
| 47298 | + | 74LS257B | DIP-16 | Tri-state quad 2-data selector/m | .49 | .45 | .39 |
| 47327 | + | 74LS259 | DIP-16 | 8-bit addressable latch | .99 | .89 | .69 |
| 47360 | + | 74LS266 | DIP-14 | Quad 2-input exclusive NOR gate (O.C.) .. | .99 | .89 | .69 |
| 47386 | + | 74LS273* | DIP-20 | Octal D-type flip-flop | .69 | .55 | .45 |
| 47407 | + | 74LS279 | DIP-16 | Quad S-R latch | .99 | .89 | .79 |
| 47423 | + | 74LS283 | DIP-16 | 4-bit binary full add w/ fast carry | 1.29 | 1.09 | .89 |
| 47562 | + | 74LS367 | DIP-16 | Tri-state hex buffer | .99 | .89 | .69 |
| 309286 | + | 74LS368 | DIP-16 | Tri-state hex bus driver | .79 | .69 | .59 |
| 47600 | + | 74LS373* | DIP-20 | Octal D-type transparent latch | .75 | .55 | .39 |
| 308460 | TI | SN74LS373N | DIP-20 | Octal D-type transparent latch | .79 | .59 | .45 |
| 47634 | + | 74LS374* | DIP-20 | Octal D-type flip-flop | .75 | .55 | .39 |
| 308478 | TI | SN74LS374N | DIP-20 | Octal D-type flip-flop | .79 | .59 | .45 |
| 47669 | + | 74LS377 | DIP-20 | Octal D-type flip-flop | 1.19 | 1.09 | .89 |
| 47722 | + | 74LS390 | DIP-16 | Dual 4-bit decade counter | .99 | .89 | .69 |
| 47731 | + | 74LS393 | DIP-14 | Dual 4-bit binary counter | .85 | .75 | .65 |
| 47870 | + | 74LS541 | DIP-20 | Tri-state octal buffer/line driver | .95 | .85 | .75 |
| 64418 | + | 74LS573 | DIP-20 | Tri-state octal D-type flip flop | 1.95 | 1.49 | 1.25 |
| 47976 | + | 74LS670 | DIP-16 | 4 x 4 register file | 1.49 | 1.25 | .95 |
| 309260 | + | 74LS682 | DIP-20 | 8-bit magnitude/identity comp. ... | 1.95 | 1.75 | 1.49 |

*10 pcs./ **20 pcs. in 74LS series IC cabinet kit, pg 4

Semiconductors

* TI = Texas Instruments | + Major Brands

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|---------------------|--------------|-------------|
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74LS Series IC Kit

*Web Code: CKS

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611) and 30 adhesive labels for drawers to identify parts in kit

10 each: 74LS05, 74LS10, 74LS11, 74LS14, 74LS20, 74LS30, 74LS47, 74LS73, 74LS75, 74LS85, 74LS86, 74LS90, 74LS93, 74LS123, 74LS125, 74LS139, 74LS151, 74LS155, 74LS157, 74LS174, 74LS175, 74LS193, 74LS240, 74LS244, 74LS245, 74LS273, 74LS373, 74LS374

20 each: 74LS00, 74LS02, 74LS04, 74LS08, 74LS32, 74LS74, 74LS138

| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|-----------------------------|------------|----------|----------|
| 84961 | 420 pcs. 74LS IC kit | 6.7 | \$169.95 | \$153.95 |
| 130391 | Refill for 84961 (420 pcs.) | 2.0 | 154.95 | 139.95 |



74S Series

Please Note: Manufacturer may vary

*Web Code: NCK

| Part No. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------------|--------|-------------------------------------|-------|-------|-------|
| 676959 | 74S00 | DIP-14 | Quad 2-input NAND gate | \$.39 | \$.29 | \$.19 |
| 48266 | 74S02 | DIP-14 | Quad 2-input NOR gate | .29 | .19 | .15 |
| 48573 | 74S20 | DIP-14 | Dual 4-input NAND gate | .29 | .19 | .15 |
| 48750 | 74S32 | DIP-14 | Quad 2-input positive OR gate | .29 | .19 | .15 |
| 52513 | 74S428 | DIP-28 | System controller/bus driver (8228) | 4.95 | 4.49 | 3.95 |

4000 Series

*Web Code: WAA

| Part No. | *Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------|-------------|--------|-------------------------------------|-------|-------|-------|
| 12562 | + | CD4001* | DIP-14 | Quad 2-input NOR gate | \$.39 | \$.29 | \$.22 |
| 12597 | + | CD4007 | DIP-14 | Dual complimentary pair plus inv. | .45 | .35 | .25 |
| 12634 | + | CD4011* | DIP-14 | Quad 2-input NAND gate | .39 | .29 | .22 |
| 893283 | TI | CD4011BE | DIP-14 | Quad 2-input NAND gate | .45 | .35 | .25 |
| 12677 | + | CD4013* | DIP-14 | Dual D-type flip-flop | .39 | .29 | .22 |
| 893443 | TI | CD4013BE | DIP-14 | Dual D-type flip-flop | .45 | .35 | .25 |
| 12706 | + | CD4015* | DIP-16 | Dual 4-stage static shift register | .49 | .39 | .29 |
| 12722 | + | CD4016* | DIP-14 | Quad bilateral switch | .39 | .35 | .25 |
| 12749 | + | CD4017* | DIP-16 | Decade counter/divider | .39 | .29 | .22 |
| 893611 | TI | CD4017BE | DIP-16 | Decade counter/divider | .45 | .35 | .25 |
| 12773 | + | CD4018 | DIP-16 | Presetttable divide-by-N counter | .49 | .39 | .25 |
| 12802 | + | CD4020* | DIP-16 | 14-st. ripple carry binary counter | .49 | .39 | .25 |
| 12829 | + | CD4021 | DIP-16 | 8-stage static shift register | .39 | .29 | .19 |
| 12845 | + | CD4023* | DIP-14 | Triple 3-input NAND gates | .39 | .35 | .25 |
| 12853 | + | CD4024* | DIP-14 | 7-stage ripple carry binary counter | .45 | .35 | .25 |
| 353560 | + | CD4026 | DIP-16 | Decade counter/divider | .45 | .35 | .25 |
| 12888 | + | CD4027* | DIP-16 | Dual J-K master/slave flip-flop | .45 | .35 | .25 |
| 12909 | + | CD4028 | DIP-16 | BCD-to-decimal decoder | .49 | .39 | .25 |
| 12925 | + | CD4029 | DIP-16 | Preset up/down binary counter | .45 | .35 | .25 |
| 12950 | + | CD4040* | DIP-16 | 12-stage binary/ripple counter | .45 | .35 | .25 |
| 12992 | + | CD4043 | DIP-16 | Tri-state quad NOR R/S latch | .49 | .39 | .29 |
| 13012 | + | CD4046* | DIP-16 | Micropower phase lock loop | .49 | .39 | .29 |
| 13039 | + | CD4047 | DIP-14 | Monostable/astable multivibrator | .49 | .39 | .29 |
| 13055 | + | CD4049* | DIP-16 | Hex inverting buffer/converter | .45 | .35 | .25 |
| 13071 | + | CD4050* | DIP-16 | Hex non-inverting buffer/converter | .45 | .35 | .25 |
| 13098 | + | CD4051* | DIP-16 | Single 8-ch analog multiplexer | .39 | .29 | .22 |
| 894391 | TI | CD4051BE | DIP-16 | Single 8-ch analog multiplexer | .45 | .35 | .25 |
| 13119 | + | CD4052 | DIP-16 | Dual 4-ch analog multiplexer | .45 | .35 | .25 |
| 13151 | + | CD4060 | DIP-16 | 14-st. ripple carry binary counter | .45 | .35 | .25 |
| 13186 | + | CD4066* | DIP-14 | Quad bilateral switch | .39 | .29 | .22 |
| 13231 | + | CD4069* | DIP-14 | Hex inverters (74C04) | .39 | .29 | .22 |
| 894761 | TI | CD4069UBE | DIP-14 | Hex inverters | .45 | .35 | .25 |
| 13258 | + | CD4070* | DIP-14 | Quad 2-input exclusive OR gate | .45 | .35 | .25 |
| 13274 | + | CD4071* | DIP-14 | Quad 2-input OR gate | .45 | .35 | .25 |
| 676086 | + | CD4073 | DIP-14 | Triple 3-input AND gate | .45 | .35 | .25 |
| 676094 | + | CD4075 | DIP-14 | Triple 3-input OR gate | .39 | .29 | .22 |
| 676107 | + | CD4077 | DIP-14 | Quad exclusive NOR gate | .29 | .22 | .15 |
| 13354 | + | CD4081* | DIP-14 | Quad 2-input AND gate | .45 | .35 | .25 |
| 676123 | + | CD4082 | DIP-14 | Dual 4-input AND gate | .45 | .35 | .25 |

*10 pcs./**20 pcs. in 4000 series IC cabinet kit, above right

4000 Series (Continued)

*Web Code: WAA

| Part No. | *Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------|-------------|--------|---------------------------------------|-------|-------|-------|
| 13397 | + | CD4086B | DIP-14 | CMOS AND-OR-INVERT gate | \$.79 | \$.69 | \$.59 |
| 13400 | + | CD4093* | DIP-14 | Quad 2-input NAND schmitt trig. | .39 | .29 | .22 |
| 818873 | TI | CD4093BE | DIP-14 | CMOS 2-input NAND gate | .45 | .35 | .25 |
| 870807 | NSC | CD4093BCN | DIP-14 | Quad 2-input NAND schmitt trig. | .69 | .59 | .49 |
| 13426 | + | CD4094 | DIP-16 | 8-bit shift register with latch | .45 | .35 | .25 |
| 13485 | + | CD4510 | DIP-16 | BCD presetable up/down counter | .45 | .35 | .29 |
| 13493 | + | CD4511* | DIP-16 | BCD to 7-segment latch/decoder/driver | .45 | .35 | .25 |
| 895377 | TI | CD4511BE | DIP-16 | BCD to 7-segment latch/decoder/driver | .55 | .45 | .29 |
| 13522 | + | CD4514 | DIP-24 | 4-bit latch/line decoder | 2.49 | 2.25 | 1.95 |
| 13565 | + | CD4518 | DIP-16 | Dual BCD up counter | .49 | .35 | .25 |
| 2179008 | + | CD4519B | DIP-16 | Logic MUX | .29 | .22 | .15 |
| 13581 | + | CD4520 | DIP-16 | Dual binary up counter | .49 | .39 | .29 |
| 13611 | + | CD4528 | DIP-16 | Dual monostable multivibrator | .69 | .59 | .39 |
| 13653 | + | CD4538* | DIP-16 | Dual monostable multivibrator | .99 | .89 | .79 |
| 13696 | + | CD4543* | DIP-16 | BCD to 7-segment decoder driver | .45 | .35 | .25 |
| 54771 | + | CD4557B | DIP-16 | 64-bit shift register | .39 | .29 | .19 |
| 13768 | + | CD4584* | DIP-14 | Hex schmitt trigger | 1.09 | .99 | .89 |
| 54623 | + | CD40098B | DIP-16 | Hex inverting 3-state buffer | .29 | .22 | .15 |
| 676473 | + | CD40102 | DIP-16 | 2-decade BCD 8-st. sync down counter | .29 | .22 | .15 |
| 893179 | TI | CD40106BE | DIP-14 | Hex schmitt trigger | .45 | .35 | .25 |
| 676502 | + | CD40110 | DIP-16 | Decade up/down counter | .99 | .89 | .69 |
| 2178988 | + | CD40163B | DIP-16 | Synch. programmable 4-bit counter | .29 | .22 | .15 |

*10 pcs. in 4000 series IC cabinet kit, below

4000 Series CMOS IC Kit

*Web Code: CKS

Includes: 20-drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611) and 30 adhesive labels for drawers to identify parts in kit

10 each: CD4015, CD4016, CD4017, CD4020, CD4023, CD4024, CD4027, CD4040, CD4046, CD4050, CD4051, CD4069, CD4070, CD4071, CD4081, CD4093, CD4511, CD4538, CD4543, CD4584

20 each: CD4001, CD4011, CD4013, CD4049, CD4066

| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|----------------------------------|------------|---------|---------|
| 84970 | 300 pcs. 4000 series CMOS IC kit | 6.1 | \$89.95 | \$79.95 |
| 130403 | Refill for 84970 (300 pcs.) | 1.4 | 74.95 | 67.95 |



5000 Series & Clock Chips

*Web Code: RAE

| Part No. | *Mfr. | Product No. | Pkg. | Description | 1 | 10 |
|----------|-------|---------------|---------|------------------------------------|--------|--------|
| 32803 | + | TCM5089N | DIP-16 | Touch tone generator | \$4.95 | \$4.49 |
| 27422 | + | LM555CN* | DIP-8 | Timer | .29 | .22 |
| 126797 | + | LMC555CN* | DIP-8 | CMOS timer | .69 | .59 |
| 24328 | + | LM556N* | DIP-14 | Dual timer | .45 | .39 |
| 95531 | + | RTC72421B | DIP-18 | Real time clock | 5.75 | 5.49 |
| 10567 | AMD | AM9513APC* | DIP-40 | Real time clock | 24.95 | 21.95 |
| 2146433 | CSS | CSS555-ID | DIP-8 | Programmable timer | 1.95 | 1.75 |
| 2146450 | CSS | CSS555C-ID | DIP-8 | Programmable timer w/ internal cap | 2.35 | 2.09 |
| 2146425 | CSS | CSS555-IS | SOIC-8 | Programmable timer | 1.55 | 1.39 |
| 1392878 | ST | M4T28-BR12SH1 | SOIC-28 | Battery/crystal snapat | 4.95 | 4.49 |

*10 pcs./**20 pcs. in Linear series IC cabinet kit, pg 10 ★ Pull = Extra Savings

*Clock Management — Enter Web Code CMS

*Digital Signal Processing — Enter Web Code CEQ

6500 Series

*Web Code: NAG

| Part No. | *Mfr. | Product No. | Pkg. | Description | 1 | 10 |
|----------|-------|-------------|--------|---------------------------------------|--------|--------|
| 43191 | + | 6502* | DIP-40 | CPU, 8-bit, 1MHz | \$5.95 | \$5.49 |
| 43166 | + | 65C02* | DIP-40 | CPU, 8-bit, 1MHz (CMOS) | 3.95 | 3.49 |
| 43318 | + | 6551* | DIP-28 | Asynch. comm. interface adapter, 1MHz | 3.49 | 3.25 |

★ Pull = Extra Savings

* AMD = Advanced Micro | CSS = Custom Silicon Solutions | NSC = National Semi | TI = Texas Instruments | + Major Brands

6800/68000, 8000 Series, UARTs, Z80 MPUs & EPROMs



6800/68000 CMOS

★ Web Code: SBP

| Part No. | Mfr. Part No. | Pkg. | Description | 1 | 10 |
|----------|-----------------|---------|--------------------------|--------|--------|
| 248604 | MC68HC11E1CFN3 | PLCC-52 | MCU, 8-bit, 38 I/O, 3MHz | \$8.95 | \$7.95 |
| 248583 | MC68HC11F1CFN3 | PLCC-68 | MCU, 8-bit, 30 I/O, 3MHz | 10.95 | 9.95 |
| 248575 | MC68HC711E9CFN2 | PLCC-52 | MCU, 8-bit, 38 I/O, 2MHz | 23.95 | 21.95 |

6800/68000 N-MOS

★ Web Code: PAG

| Part No. | *Mfr. | Product No. | Pkg. | Description | 1 | 10 |
|----------|-------|-------------|--------|---|--------|--------|
| 43481 | ◆ | 6800★ | DIP-40 | CPU, 8-bit, 5V, 2MHz | \$4.95 | \$4.49 |
| 43502 | ◆ | 6802★ | DIP-40 | CPU, 8-bit, 5V, 1MHz | 7.95 | 6.95 |
| 43537 | ◆ | 6808★ | DIP-40 | CPU, 8-bit, 7V, 1MHz | 6.95 | 5.95 |
| 43545 | ◆ | 6809E★ | DIP-40 | CPU, 8-bit, 7V, 1MHz | 4.95 | 4.49 |
| 320590 | ◆ | 68B09E★ | DIP-40 | CPU, 8-bit, 7V, 2MHz | 3.95 | 3.49 |
| 43561 | ◆ | 6810★ | DIP-24 | SRAM, 1K-bit, 5V, 1MHz | 3.49 | 3.25 |
| 43596 | ◆ | 6821★ | DIP-40 | Peripheral inter. adapter, 8-bit, 7V, 1MHz | 3.95 | 3.49 |
| 43414 | ◆ | 68B21 | DIP-40 | Peripheral inter. adapter, 8-bit, 7V, 1MHz | 4.95 | 4.49 |
| 43633 | ◆ | 6850★ | DIP-24 | Asynch. comm. int. adapter, 8-bit, 7V, 1MHz | 4.49 | 3.95 |

★ Pull = Extra Savings

8000 Series

Please Note: Manufacturer may vary

★ Web Code: CAH

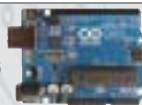
| Part No. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------------|--------|---------------------------------------|--------|--------|--------|
| 51844 | 8031★ | DIP-40 | MCU, 8-bit, 32 I/O, 8MHz | \$1.95 | \$1.75 | \$1.49 |
| 51676 | 80C31★ | DIP-40 | MCU, 8-bit, 32 I/O, 24MHz, CMOS | 3.25 | 2.95 | 2.75 |
| 876096 | P80C31BH-1 | DIP-40 | MCU, 8-bit, 32 I/O, 16MHz, CMOS | 3.95 | 3.49 | 3.25 |
| 102197 | 8032★ | DIP-40 | CPU, 8-bit, 32 I/O, 12MHz | 3.49 | 2.95 | 2.49 |
| 51861 | 8035★ | DIP-40 | CPU, 8-bit, 27 I/O, 11MHz | 1.49 | 1.25 | .95 |
| 51692 | 80C39 | DIP-40 | MCU, 8-bit, 27 I/O, 11MHz, CMOS | 2.75 | 2.49 | 2.25 |
| 52046 | 8080A★ | DIP-40 | CPU, 8-bit, 16 I/O, 1MHz | 4.49 | 4.25 | 3.95 |
| 52062 | 8085AH★ | DIP-40 | CPU, 8-bit, 16 I/O, 3MHz | 3.95 | 3.75 | 3.49 |
| 52071 | 8085AH-2★ | DIP-40 | CPU, 8-bit, 16 I/O, 5MHz | 3.95 | 3.49 | 2.95 |
| 52142 | 8088★ | DIP-40 | CPU, 8-bit, 16 I/O, 5MHz | 3.95 | 3.49 | 2.95 |
| 52290 | 8155★ | DIP-40 | I/O port timer, 2K-bit, 3MHz | 3.95 | 3.49 | 2.95 |
| 52302 | 8155-2★ | DIP-40 | Static MOS RAM, 2K-bit, 3 I/O, 5MHz | 4.49 | 3.95 | 3.49 |
| 52193 | 81C55★ | DIP-40 | I/O port timer, 2K-bit, 3MHz, CMOS | 3.95 | 3.49 | 2.95 |
| 52492 | 8224★ | DIP-16 | Clock generator/driver | 4.95 | 4.49 | 3.95 |
| 52513 | 8228 | DIP-28 | System controller/bus driver | 4.95 | 4.49 | 3.95 |
| 52581 | 8243★ | DIP-24 | I/O expander, 5V, MIL temp | 2.95 | 2.75 | 2.25 |
| 52652 | 8251A★ | DIP-28 | Prog. communications interface | 3.49 | 3.25 | 2.95 |
| 52370 | 82C51A★ | DIP-28 | USART, 3V to 6V, CMOS | 3.49 | 3.09 | 2.75 |
| 52687 | 8253-5★ | DIP-24 | Prog. interval timer, 5MHz | 2.95 | 2.75 | 2.49 |
| 52708 | 8254★ | DIP-24 | Prog. interval timer, 8MHz | 1.25 | .95 | .75 |
| 52716 | 8254-2★ | DIP-24 | Prog. interval timer, 10MHz | 2.95 | 2.75 | 2.49 |
| 52409 | 82C54-2★ | DIP-24 | Prog. interval timer, 10MHz, CMOS | 3.95 | 3.49 | 2.95 |
| 52396 | 82C54★ | DIP-24 | Prog. interval timer, 8MHz, CMOS | 3.95 | 3.59 | 3.25 |
| 52724 | 8255★ | DIP-40 | CPU peripheral, 2MHz | 4.49 | 3.95 | 3.49 |
| 52732 | 8255A-5★ | DIP-40 | CPU peripheral, 4MHz (300ns) | 4.75 | 4.25 | 3.75 |
| 291805 | 8255AC-5 | DIP-40 | CPU peripheral, 4MHz (250ns) | 3.95 | 3.75 | 3.49 |
| 2227268 | 8255AC-2 | DIP-40 | CPU peripheral, 5MHz (250ns) | 3.95 | 3.49 | 2.95 |
| 52417 | 82C55A★ | DIP-40 | CPU peripheral, 8MHz, CMOS | 4.49 | 3.95 | 3.49 |
| 52759 | 8256★ | DIP-40 | Multi func. uproc. support controller | 12.95 | 11.95 | 9.95 |
| 52839 | 8279★ | DIP-40 | CPU peripheral, 5MHz | 8.95 | 8.25 | 7.49 |
| 52871 | 8284A★ | DIP-18 | Clock generator/driver, 8MHz | 3.95 | 3.49 | 3.25 |
| 53031 | 8748H◆ | DIP-40 | CPU, 8-bit, 27 I/O, 11MHz | 10.95 | 9.95 | 8.95 |

* Tie pin 31 low to bypass the internal ROM

★ Pull = Extra Savings ◆ Refurbished = Backed by Jameco

BEST SELLING MICRO CONTROLLER BOARDS

2151486



| Part No. | Description | Price |
|----------|----------------------|---------|
| 2151486 | Arduino Uno R3 | \$26.95 |
| 2261087 | Red Bear Labs BLEND | 34.95 |
| 2152366 | Arduino Mega 2560 R3 | 39.95 |

UARTs

Please Note: Manufacturer may vary

★ Web Code: MAG

| Part No. | Product No. | Pkg. | Description | 1 | 10 |
|----------|-------------|--------|-------------------------------|--------|--------|
| 43158 | 6402★ | DIP-40 | 5V CMOS | \$3.95 | \$3.49 |
| 27570 | NS16C450N★ | DIP-40 | Asynch. comm. element, 5V | 1.49 | 1.25 |
| 288809 | TL16C550CN | DIP-40 | 1-channel w/ 16-byte FIFO, 5V | 3.95 | 3.49 |

★ Pull = Extra Savings

Z80 MPUs

Please Note: Manufacturer may vary

★ Web Code: JAF

| Part No. | Product No. | Pkg. | Description | 1 | 10 |
|----------|-------------|--------|---|--------|--------|
| 35561 | Z80★ | DIP-40 | 2.5MHz CPU (MK3880N/780C) | \$2.49 | \$2.25 |
| 35596 | Z80A★ | DIP-40 | 4MHz CPU (MK3880N-4/780C-1) | 2.95 | 2.75 |
| 35609 | Z80A-CTC★ | DIP-28 | 4MHz counter timer circuit (MK3882-4) | 1.95 | 1.75 |
| 35641 | Z80A-PIO★ | DIP-40 | 4MHz parallel I/O interf. contr. (MK3881-4) | 1.95 | 1.75 |
| 35705 | Z80B★ | DIP-40 | 6MHz CPU (MK3880N-6) | 3.25 | 2.95 |
| 61786 | Z85C3008PS | DIP-40 | Serial communications controller | 2.49 | 2.25 |

★ Pull = Extra Savings

EPROMs

★ Web Code: XAF

| Part No. | *Mfr. | Product No. | Pkg.† | Config. | Description | 1 | 10 | 100 |
|----------|-------|---------------|---------|----------|------------------|--------|--------|--------|
| 33611 | ◆ | TMS2716◆ | DIP-24 | 2k x 8 | 450ns, 5V | \$.99 | \$.79 | \$.59 |
| 40002 | ◆ | 2716◆ | DIP-24 | 2k x 8 | 450ns, 5V | 3.95 | 3.75 | 3.49 |
| 40011 | ◆ | 2716-1◆ | DIP-24 | 2k x 8 | 350ns, 5V | 3.49 | 2.95 | 2.49 |
| 308662 | ◆ | 2716A-2 | DIP-24 | 2k x 8 | 200ns, 5V | 3.95 | 3.75 | 3.49 |
| 40096 | ◆ | 2732◆ | DIP-24 | 4k x 8 | 450ns, 5V | 5.95 | 5.49 | 3.95 |
| 40133 | ◆ | 2732A-45◆ | DIP-24 | 4k x 8 | 450ns, 5V | 3.95 | 3.75 | 3.49 |
| 40125 | ◆ | 2732A-25◆ | DIP-24 | 4k x 8 | 250ns, 5V | 4.95 | 4.49 | 3.95 |
| 40109 | ◆ | 2732A-20◆ | DIP-24 | 4k x 8 | 200ns, 5V | 5.49 | 4.95 | 4.49 |
| 266001 | ◆ | 27C32-150◆ | DIP-24 | 4k x 8 | 150ns, 5V | 4.95 | 4.49 | 4.25 |
| 40192 | ◆ | 2764-20◆ | DIP-28 | 8k x 8 | 200ns, 5V | 4.25 | 3.95 | 3.75 |
| 40230 | ◆ | 2764A-20◆ | DIP-28 | 8k x 8 | 200ns, 5V | 4.25 | 3.95 | 3.75 |
| 39845 | ◆ | 27C64-25◆ | DIP-28 | 8k x 8 | 250ns, 5V | 2.75 | 2.49 | 1.95 |
| 74608 | ◆ | 27C64-20◆ | DIP-28 | 8k x 8 | 200ns, 5V | 3.49 | 2.95 | 2.49 |
| 39829 | ◆ | 27C64-15◆ | DIP-28 | 8k x 8 | 150ns, 5V | 4.25 | 3.95 | 3.75 |
| 698322 | ST | M27C64A-15F1 | FDIP-28 | 8k x 8 | 150ns, 5V (±10%) | 5.95 | 5.49 | 5.25 |
| 105304 | ◆ | 27C64-12◆ | DIP-28 | 8k x 8 | 120ns, 5V | 4.49 | 4.25 | 3.85 |
| 266036 | ◆ | 27C64-100 | DIP-28 | 8k x 8 | 100ns, 5V | 4.95 | 4.55 | 4.05 |
| 39984 | ◆ | 27128A-25◆ | DIP-28 | 16k x 8 | 250ns, 5V | 2.95 | 2.49 | 1.95 |
| 39950 | ◆ | 27128A-15◆ | DIP-28 | 16k x 8 | 150ns, 5V | 2.95 | 2.75 | 2.49 |
| 39685 | ◆ | 27C128-25◆ | DIP-28 | 16k x 8 | 250ns, 5V | 3.75 | 3.49 | 3.25 |
| 101101 | ◆ | 27C128-20◆ | DIP-28 | 16k x 8 | 200ns, 5V | 3.49 | 3.25 | 2.95 |
| 87935 | ◆ | 27C128-12◆ | DIP-28 | 16k x 8 | 120ns, 5V | 4.49 | 4.25 | 3.95 |
| 39731 | ◆ | 27C256-25◆ | DIP-28 | 32k x 8 | 250ns, 5V | 2.35 | 2.15 | 1.85 |
| 39722 | ◆ | 27C256-20◆ | DIP-28 | 32k x 8 | 200ns, 5V | 2.55 | 2.25 | 1.95 |
| 39714 | ◆ | 27C256-15◆ | DIP-28 | 32k x 8 | 150ns, 5V | 2.75 | 2.49 | 2.25 |
| 698111 | ST | M27C256B-15F1 | FDIP-28 | 32k x 8 | 150ns, 5V | 3.95 | 3.49 | 3.25 |
| 698091 | ST | M27C256B-12F1 | FDIP-28 | 32k x 8 | 120ns, 5V | 4.25 | 3.75 | 3.49 |
| 112740 | ◆ | 27C256-10◆ | DIP-28 | 32k x 8 | 100ns, 5V | 3.75 | 3.25 | 2.95 |
| 698082 | ST | M27C256B-10F1 | FDIP-28 | 32k x 8 | 100ns, 5V | 4.49 | 3.95 | 3.59 |
| 140476 | ◆ | 27C256-70◆ | DIP-28 | 32k x 8 | 70ns, 5V | 4.49 | 3.95 | 3.59 |
| 266079 | ◆ | 27C256-55 | DIP-28 | 32k x 8 | 55ns, 5V | 3.95 | 3.49 | 3.25 |
| 39802 | ◆ | 27C512-25◆ | DIP-28 | 64k x 8 | 250ns, 5V | 1.95 | 1.75 | 1.49 |
| 39781 | ◆ | 27C512-15◆ | DIP-28 | 64k x 8 | 150ns, 5V | 2.75 | 2.49 | 2.25 |
| 698234 | ST | M27C512-15F1 | FDIP-28 | 64k x 8 | 150ns, 5V | 4.19 | 3.95 | 3.75 |
| 39773 | ◆ | 27C512-12◆ | DIP-28 | 64k x 8 | 120ns, 5V | 2.95 | 2.75 | 2.49 |
| 698226 | ST | M27C512-12F1 | FDIP-28 | 64k x 8 | 120ns, 5V | 4.95 | 4.49 | 3.95 |
| 131959 | ◆ | 27C512-10◆ | DIP-28 | 64k x 8 | 100ns, 5V | 2.95 | 2.75 | 2.49 |
| 203625 | ◆ | 27C512-70 | DIP-28 | 64k x 8 | 70ns, 5V | 3.95 | 3.75 | 3.49 |
| 203641 | ◆ | 27C1024-12 | DIP-40 | 64k x 16 | 120ns, 5V | 2.95 | 2.75 | 2.49 |
| 39651 | ◆ | 27C010-15◆ | DIP-32 | 128k x 8 | 150ns, 5V | 2.95 | 2.75 | 2.75 |

◆ Refurbished = Backed by Jameco

† FDIP = Ceramic frit seal

Continued on next page

* ST = ST Micro ◆ Major Brands

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

EPROMs, OTP/PROMs, EEPROMs, Memory & Anti-Static Accessories

Semiconductors



EPROMs (Continued)

*Web Code: XAF

| Part No. | *Mfr. | Product No. | Pkg. | Config. | Description | 1 | 10 | 100 |
|----------|-------|---------------|---------|----------|-----------------|--------|--------|--------|
| 697987 | ST | M27C1001-15F1 | FDIP-32 | 128k x 8 | 150ns, 5V | \$4.95 | \$4.75 | \$4.49 |
| 74624 | + | 27C010-12+ | DIP-32 | 128k x 8 | 120ns, 5V | 2.95 | 2.75 | 2.49 |
| 697961 | ST | M27C1001-12F1 | FDIP-32 | 128k x 8 | 120ns, 5V | 5.95 | 5.49 | 5.25 |
| 697944 | ST | M27C1001-10F1 | FDIP-32 | 128k x 8 | 100ns, 5V | 4.75 | 4.49 | 4.25 |
| 146149 | + | 27C010-70+ | DIP-32 | 128k x 8 | 70ns, 5V | 3.75 | 3.49 | 3.25 |
| 698007 | ST | M27C1001-70F1 | FDIP-32 | 128k x 8 | 70ns, 5V | 4.49 | 4.25 | 3.75 |
| 65699 | + | 27C020-15+ | DIP-32 | 256k x 8 | 150ns, 5V | 3.25 | 2.95 | 2.75 |
| 698031 | ST | M27C2001-12F1 | FDIP-32 | 256k x 8 | 120ns, 5V | 5.95 | 5.49 | 4.95 |
| 85462 | + | 27C040-15+ | DIP-32 | 512k x 8 | 150ns, 5V | 4.49 | 4.25 | 3.95 |
| 266124 | + | 27C040-70 | DIP-32 | 512k x 8 | 70ns, 5V | 4.95 | 4.75 | 4.49 |
| 156275 | + | 27C080-10 | DIP-32 | 1M x 8 | 100ns, 5V | 5.95 | 5.49 | 4.95 |
| 203684 | + | 27C080-90 | DIP-32 | 1M x 8 | 90ns, 5V | 7.95 | 7.25 | 6.49 |

♣ Refurbished = Backed by Jameco † FDIP = Ceramic frit seal

OTP/PROMs

*Web Code: WAG

| Part No. | *Mfr. | Product No. | Pkg. | Config. | Description | 1 | 10 | 100 |
|----------|-------|----------------|--------|----------|--------------------------------------|--------|--------|--------|
| 394986 | ATM | AT27C256R-45PU | DIP-28 | 32k x 8 | 256-kbit, 45ns OTP, LP, I-temp. | \$2.49 | \$2.25 | \$1.75 |
| 394708 | ATM | AT27C010-70PU | DIP-32 | 128k x 8 | 1-Mbit, 5V, 70ns, I-temp., OTP | 2.75 | 2.49 | 1.95 |

*Network ICs — Enter Web Code JEQ

EEPROMs

Please Note: Manufacturer may vary

*Web Code: GAM

| Part No. | Product No. | Pkg. | Config. | Description | 1 | 10 | 100 |
|----------|-------------|--------|----------|------------------------------|--------|--------|--------|
| 276592 | 24C01 | DIP-8 | 128 x 8 | 2-wire serial, 1.8-5.5V | \$2.29 | \$2.25 | \$1.19 |
| 108855 | 93C56 | DIP-8 | 128 x 16 | 3-wire serial, 2-5V | .29 | .22 | .15 |
| 74691 | 28C16A-25 | DIP-24 | 2k x 8 | Page parallel, 5V | 3.95 | 3.75 | 3.49 |
| 74827 | 28C64A-25 | DIP-28 | 8k x 8 | Page parallel, 5V | 3.75 | 3.49 | 3.25 |
| 200580 | 24C256-10 | DIP-8 | 32k x 8 | 2-wire serial, 2-5V | .59 | .49 | .29 |
| 74878 | 28C256-25 | DIP-28 | 32k x 8 | Page parallel, 5V | 2.95 | 2.75 | 2.49 |
| 74843 | 28C256-15 | DIP-28 | 32k x 8 | Page parallel, 5V | 5.49 | 5.25 | 4.49 |

*Flash Memory — Enter Web Code KAJ

IC Anti-Static Accessories

*Web Code: XAA

| Part No. | Product No. | Description | * Order in multiples of 10 | 1 | 10 | 100 |
|----------|-------------|---|----------------------------|---------|---------|---------|
| 13864 | CF2 | Conductive foam (12" x 24" x .25") hard black | | \$12.95 | \$11.95 | \$10.95 |
| 29516 | RIC20# | .300" anti-static rail for 8, 14, 16, 18, 20 & 22-pin ICs | | .29 | .25 | .22 |
| 29524 | RIC220 # | .600" anti-static rail for 24, 28, 36 & 40-pin ICs | | .29 | .25 | .22 |
| 29583 | RRS | Storage tube rubber stopper | * | .09 | .07 | |

#Previously used

Additional Anti-Static Products, IC Accessories & Tools see page 123

TOP MAX II HIGH SPEED UNIVERSAL PROGRAMMER

TopMaxII is a high-speed universal device programmer for USB 1.1/2.0/3.0 PC-interface. It programs a 64Mbit flash memory device in 42 seconds. This is a true low-price production oriented system. The TopMaxII meets the demands of today's programming solution for lab and production line applications.



| Part No. | Mfr. Part No. | Price |
|----------|---------------|----------|
| 2110158 | TOPMAXII | \$794.95 |

Static RAM

*Web Code: WAF

| Part No. | *Mfr. | Product No. | Pkg. | Config. | Description | 1 | 10 |
|----------|-------|------------------|---------|----------|-------------------------------------|--------|--------|
| 1847596 | CAT | CAT22C10PIT-30 | DIP-18 | 64 x 4 | 256-bit, 5V, 300ns | \$.99 | \$.89 |
| 42198 | + | 5101* | DIP-22 | 256 x 4 | 1-Kbit, 5V, 450ns | 6.95 | 6.49 |
| 38957 | + | 2114N | DIP-18 | 1k x 4 | 4-Kbit, 5V, 450ns | 2.25 | 1.95 |
| 38973 | + | 2114N-2 | DIP-18 | 1k x 4 | 4-Kbit, 5V, 200ns | 2.25 | 1.95 |
| 242691 | CPS | CY7C128A-35PC | DIP-24 | 2k x 8 | 8-bit, 2-5V, 35ns | 1.95 | 1.75 |
| 25911 | + | MK48Z02B-15 | DIP-24 | 2k x 8 | 16-Kbit, 5V, 150ns, NV | 6.95 | 6.49 |
| 42809 | + | 6116P-3N* | DIP-24 | 2k x 8 | 16-Kbit, 5V, 150ns | 1.75 | 1.55 |
| 42788 | + | 6116P-1* | DIP-24 | 2k x 8 | 16-Kbit, 5V, 100ns | 1.95 | 1.75 |
| 42737 | + | 6116LP-1* | DIP-24 | 2k x 8 | 16-Kbit, 5V, 100ns, LP | 1.75 | 1.49 |
| 242675 | + | 6116-70 | DIP-24 | 2k x 8 | 16-Kbit, 5V, 70ns | 2.25 | 1.95 |
| 242683 | CPS | CY7C128A-45 | DIP-24 | 2k x 8 | 16-Kbit, 5V, 45ns, Asynch. | 1.29 | 1.09 |
| 85121 | + | 6264LP-70 | DIP-28 | 8k x 8 | 64-Kbit, 5V, 70ns, LP | 3.75 | 3.49 |
| 42884 | + | 6264LP-10* | DIP-28 | 8k x 8 | 64-Kbit, 5V, 100ns, LP | 2.95 | 2.75 |
| 42892 | + | 6264LP-12* | DIP-28 | 8k x 8 | 64-Kbit, 5V, 120ns, LP | 1.95 | 1.75 |
| 42930 | + | 6264P-12* | DIP-28 | 8k x 8 | 64-Kbit, 5V, 120ns | 2.25 | 1.95 |
| 114278 | DAL | DS1225AB-15 | DIP-28 | 8k x 8 | 64-Kbit, 5V, 150ns, NV | 11.95 | 9.95 |
| 242376 | + | CY7C199P-35 | DIP-28 | 32k x 8 | 256-Kbit, 5V, 35ns, LP Asynch. | 1.95 | 1.75 |
| 177113 | DAL | DS1230Y-100 | DIP-28 | 32k x 8 | 256-Kbit, 5V, 100ns, NV | 13.95 | 12.95 |
| 114323 | DAL | DS1230Y-150 | DIP-28 | 32k x 8 | 256-Kbit, 5V, 150ns, NV | 11.95 | 10.95 |
| 41970 | + | 43256-10L* | DIP-28 | 32k x 8 | 256-Kbit, 5V, 100ns, LP | 2.95 | 2.75 |
| 82472 | + | 62256LP-70 | DIP-28 | 32k x 8 | 256-Kbit, 5V, 70ns, LP | 2.49 | 2.25 |
| 391793 | CPS | CY62256L-70PC | DIP-28 | 32k x 8 | 256-Kbit, 5V, 70ns | 3.49 | 3.25 |
| 391822 | CPS | CY62256LL-70PC | DIP-28 | 32k x 8 | 256-Kbit, 5V, 70ns, LP | 3.49 | 3.25 |
| 42876 | + | 62256LP-85 | DIP-28 | 32k x 8 | 256-Kbit, 5V, 85ns, LP | 2.25 | 1.95 |
| 42833 | + | 62256LP-10* | DIP-28 | 32k x 8 | 256-Kbit, 5V, 100ns, LP | 1.49 | 1.25 |
| 42850 | + | 62256LP-12* | DIP-28 | 32k x 8 | 256-Kbit, 5V, 120ns, LP | 1.75 | 1.49 |
| 391831 | CPS | CY62128BLL-70SC | SOIC-32 | 128k x 8 | 1-Mbit, 5V, 70ns, LP | 1.29 | 1.09 |
| 131810 | + | 628128LP-70 | DIP-32 | 128k x 8 | 1-Mbit, 5V, 70ns, LP | 5.95 | 5.49 |
| 242448 | + | BS62LV4006PIP-55 | PDIP-32 | 512k x 8 | 4M LP, 55ns, 2.4-5.5V, I-temp | 15.95 | 13.95 |
| 157358 | + | 628512LP-70 | DIP-32 | 512k x 8 | 4-Mbit, 5V, 70ns, LP | 12.95 | 10.95 |

* Pull = Extra Savings

DRAM

Please Note: Manufacturer may vary

*Web Code: DRM

| Part No. | Product No. | Pkg. | Config. | Description | 1 | 10 | 100 |
|----------|-------------|--------|----------|----------------------------|--------|--------|--------|
| 41339 | 4116-15 | DIP-16 | 16k x 1 | 150ns (MM5290J-1R) | \$.99 | \$.89 | \$.79 |
| 41662 | 4164-150* | DIP-16 | 64k x 1 | 150ns (MCM6665-15) | .99 | .89 | .79 |
| 41574 | 41464-10* | DIP-18 | 64k x 4 | 100ns (HY53C464S-10) | 1.69 | 1.59 | 1.45 |
| 41398 | 41256-120* | DIP-16 | 256k x 1 | 120ns (MB81256-12) | .79 | .69 | .59 |

* Pull = Extra Savings

Anti-Static Work Mats



These mats are made of attractive semi-conductive vinyl that provide adequate discharging yet will not short leads or pins.

| Part No. | Dimensions | Wt. (lbs.) | 1 | 10 | 25 |
|----------|---------------|------------|--------|--------|--------|
| 10576 | 11.3" x 22" | 0.7 | \$9.95 | \$8.95 | \$7.95 |
| 10584 | 19.5" x 23.5" | 1.1 | 13.95 | 12.49 | 10.95 |
| 2130853 | 19.7" x 23.6" | 1.1 | 14.95 | 13.95 | 12.95 |
| 2152075 | 24" x 48" | 3.9 | 69.95 | 64.95 | 59.95 |



*Anti-Static — Enter Web Code XAA

*Zilog Flash MCUs — Enter Web Code JAF

*MPUs — Enter Web Code MPT

*Universal Programmers and Adapters — Enter Web Code SUP

* ATM = Atmel Semiconductor | CAT = Catalyst | CPS = Cypress Semiconductor | DAL = Dallas Semiconductor | ST = ST Micro | + Major Brands

PAL/GALs, Microcontrollers, BASIC Stamps & Interface



Dallas Semiconductors

★ Web Code: QDH

| Part No. | Mfr. Part No. | Pkg. | Description | 1 | 10 | 100 |
|----------|---------------|--------|---|--------|--------|--------|
| 114198 | DS1210 | DIP-8 | NV controller chip | \$3.95 | \$3.25 | \$2.49 |
| 114219 | DS1213C | DIP-28 | Smart socket | 21.95 | 19.95 | 18.95 |
| 133410 | DS1216C | DIP-28 | Smart watch/RAM | 19.95 | 17.95 | 16.95 |
| 114331 | DS1232LP | DIP-8 | Micromonitor chip | 1.75 | 1.49 | 1.29 |
| 697231 | DS1243Y-120+ | DIP-28 | 64k NV SRAM w/ phantom clock | 15.95 | 14.95 | 13.95 |
| 176778 | DS1302 | DIP-8 | Trickle charge time keeping | 2.95 | 2.25 | 1.95 |
| 1194679 | DS1307+ | DIP-8 | 5V, 64 x 8 serial I2C real time clock, C-temp | 2.49 | 2.25 | 1.75 |
| 1194695 | DS1307N+ | DIP-8 | 5V, 64 x 8 serial I2C real time clock, I-temp | 2.95 | 2.25 | 2.05 |
| 780810 | DS1511Y | DIP-28 | Y2K compliant watchdog clock | 6.95 | 5.95 | 4.95 |
| 114382 | DS1620 | DIP-8 | Digital thermometer and thermostat .. | 5.49 | 5.25 | 4.75 |
| 865936 | DS18B20+ | TO-92 | Prog. resolution 1-wire digital thermometer .. | 3.49 | 2.75 | 2.49 |
| 133452 | DS12887 | DIP-24 | Real time clock chip | 6.95 | 5.95 | 4.95 |

★ CPLDs and FPGAs — Enter Web Code SAZ

Voice Chip

Single-Chip Voice Record/Playback Device

- Manual switch or microprocessor controllable
- Directly cascadable for longer durations
- Single voltage operation: +5V (4.5V to 5.5V operating range)
- Playback can be edge or level-activated • 28-pin DIP
- Typical 100k record cycles, 1µA standby current and 100 year message retention



| Part No. | Mfr. Part No. | Description | 1 | 10 | 50 |
|----------|---------------|---------------------------------------|--------|--------|--------|
| 141671 | ISD1110P | Voice record/playback (10 sec.) | \$5.95 | \$5.49 | \$5.25 |

Microcontrollers

★ Web Code: PAV

| Part No. | Mfr. Part No. | Pkg. | Description | 1 | 10 | 100 |
|----------|---------------------|--------|-----------------------------------|--------|--------|--------|
| 145040 | MCH PIC12C508A-04/P | DIP-8 | 512 OTP, 4MHz, 5 I/O | \$1.05 | \$.95 | \$.85 |
| 144258 | MCH PIC12C509A-04/P | DIP-8 | 1k OTP, 4MHz, 5 I/O | 1.19 | 1.05 | .95 |
| 223790 | MCH PIC12F629-I/P | DIP-8 | 1k flash, 20MHz, 6 I/O | .95 | .89 | .85 |
| 223781 | MCH PIC12F675-I/P | DIP-8 | 1k flash, 20MHz, 6 I/O | 1.09 | .95 | .85 |
| 312514 | MCH PIC12F683-I/P | DIP-8 | 2k flash, 20MHz, 6 I/O | 1.29 | 1.19 | 1.09 |
| 145111 | MCH PIC16F84A-04/P | DIP-18 | 1k flash, 4MHz, 13 I/O | 3.95 | 3.59 | 3.29 |
| 193332 | MCH PIC16F84A-20/P | DIP-18 | 1k flash, 20MHz, 13 I/O | 4.25 | 3.75 | 3.49 |
| 312733 | MCH PIC16F88-I/P | DIP-18 | 4k flash, 20MHz, 16 I/O | 3.09 | 2.89 | 2.59 |
| 246756 | MCH PIC16F628-20/P | DIP-18 | 2k flash, 20MHz, 16 I/O | 3.25 | 2.95 | 2.59 |
| 223749 | MCH PIC16F630-I/P | DIP-14 | 1k flash, 20MHz, 12 I/O | 1.29 | 1.09 | .89 |
| 247142 | MCH PIC16F648A-I/P | DIP-18 | 4k flash, 20MHz, 16 I/O | 2.29 | 2.09 | 1.79 |
| 312590 | MCH PIC16F684-I/P | DIP-14 | 2k flash, 20MHz, 12 I/O | 1.69 | 1.49 | 1.29 |
| 312611 | MCH PIC16F688-I/P | DIP-14 | 4k flash, 20MHz, 12 I/O | 1.59 | 1.45 | 1.35 |
| 2127523 | MCH PIC16F690-I/P | DIP-20 | 7k flash, 20MHz, 18 I/O | 1.95 | 1.79 | 1.59 |
| 246975 | MCH PIC16F873A-I/SP | DIP-28 | 4k flash, 20MHz, 22 I/O | 4.49 | 3.95 | 3.75 |
| 193367 | MCH PIC16F876-20/SP | DIP-28 | 8k flash, 20MHz, 22 I/O | 5.95 | 5.39 | 5.19 |
| 247011 | MCH PIC16F876A-I/SP | DIP-28 | 8k flash, 20MHz, 22 I/O | 4.75 | 4.35 | 4.09 |
| 176882 | MCH PIC16F877-20/P | DIP-40 | 8k flash, 20MHz, 22 I/O | 6.25 | 5.75 | 5.45 |
| 247038 | MCH PIC16F877A-I/P | DIP-40 | 8k flash, 20MHz, 33 I/O | 4.95 | 4.49 | 4.25 |
| 2127531 | MCH PIC16F886-I/P | DIP-28 | 14k flash, 20MHz, 25 I/O | 2.39 | 2.09 | 1.89 |
| 2127540 | MCH PIC16F887-I/P | DIP-40 | 14k flash, 20MHz, 35 I/O | 2.49 | 2.25 | 1.95 |
| 248031 | MCH PIC18F452-I/P | DIP-40 | 32k flash, 40MHz, 34 I/O | 6.95 | 5.95 | 5.59 |
| 2177651 | MCH PIC18F2550-I/SP | DIP-28 | 32k flash, 48MHz, 24 I/O | 4.95 | 4.49 | 4.19 |
| 2177678 | MCH PIC18F4550-I/P | DIP-40 | 32k flash, 48MHz, 35 I/O | 5.29 | 4.75 | 4.49 |
| 323133 | ATM ATMEGA16-16PU | DIP-40 | 6k flash, 16MHz, 32 I/O | 4.49 | 4.25 | 3.95 |
| 2151267 | ATM ATTINY45-20PU | DIP-8 | 4k flash, 20MHz, 6 I/O | 1.95 | 1.75 | 1.55 |
| 2151312 | ATM ATTINY85-20PU | DIP-8 | 8k flash, 20MHz, 6 I/O | 4.49 | 3.95 | 3.49 |
| 204089 | ATM AT89C4051-24PU | DIP-20 | 4k flash, 24MHz, 15 I/O | 2.45 | 2.15 | 1.75 |
| 1537061 | ATM ATTINY2313-20PU | DIP-20 | 2k flash, 20MHz, 18 I/O | 2.95 | 2.75 | 2.49 |
| 168903 | ATM AT89C51-24PC | DIP-40 | 4k flash, 24MHz, 32 I/O | 2.49 | 2.25 | 1.95 |
| 168920 | ATM AT89C52-24PC | DIP-40 | 8k flash, 24MHz, 32 I/O | 2.95 | 2.49 | 1.95 |
| 662637 | ATM AT89S52-24PC | DIP-40 | 8k flash, 24MHz, 32 I/O | 2.49 | 2.25 | 1.95 |
| 168946 | ATM AT89C55WD-24PC | DIP-40 | 20k flash, 24MHz, 32 I/O | 2.25 | 1.95 | 1.75 |
| 2139111 | ATM ATMEGA328P-PU | DIP-28 | 32k flash, 8-bit, 20MHz | 3.59 | 3.25 | 2.95 |
| 2129334 | ATM A000048 | DIP-28 | 32k flash, 8-bit, ATmega328 | 5.49 | 4.95 | 4.49 |

• ATM = Atmel Semiconductor | LAT = Lattice Semiconductor | MAX = Maxim Semiconductor | MCH = Microchip | ♦ Major Brands

★ For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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|---------------------|--------------|-------------|
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PALs & GALs

★ Web Code: YAD

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 |
|----------|------|---------------|--------|--|--------|--------|
| 28020 | ♦ | PAL16L8 | DIP-20 | Octal 16-input AND-OR-INVERT gate array .. | \$.99 | \$.89 |
| 88399 | ♦ | GAL16V8-10* | DIP-20 | 10ns 64 x 32 AND array | 2.25 | 1.95 |
| 37452 | ♦ | GAL16V8-15* | DIP-20 | 15ns 64 x 32 AND array | 2.25 | 1.95 |
| 37461 | ♦ | GAL16V8-25* | DIP-20 | 25ns 64 x 32 AND array | 2.09 | 1.89 |
| 876539 | LAT | GAL16V8D-25LP | DIP-20 | 25ns 64 x 32 AND array | 2.25 | 1.95 |
| 38658 | ♦ | GAL20V8-15** | DIP-24 | 15ns 64 x 40 AND array | 2.49 | 2.25 |
| 39159 | ♦ | GAL22V10-15 | DIP-24 | 15ns 132 x 44 AND array | 3.75 | 3.49 |
| 39167 | ♦ | GAL22V10-25 | DIP-24 | 25ns 132 x 44 AND array | 2.95 | 2.75 |

GALs are electrically erasable, CMOS PLDs that can be reprogrammed and can be used in place of numerous PALs

* Replaces PALs: 10H8, 10L8, 10P8, 12H6, 12L6, 12P6, 14H4, 14L4, 14P4, 16H2, 16H8, 16L2, 16L8, 16P2, 16P8, 16R4, 16R6, 16R8, 16RP4, 16RP6, 16RP8, 14H8, 14L8, 14P8, 16H6, 16L6, 16P6

** Replaces PALs: 18H4, 18L4, 18P4, 20H2, 20H8, 20L2, 20L8, 20P2, 20P8, 20R4, 20R6, 20R8, 20RP4, 20RP6, 20RP8

Buffer

★ Web Code: WBR

| Part No. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|-------------|--------|------------------------------|--------|--------|--------|
| 23051 | LH0002CN | DIP-10 | General purpose buffer | \$9.95 | \$8.95 | \$7.95 |

Interface Series

★ Web Code: RBU

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 |
|----------|------|-------------|--------|--|--------|--------|
| 1291647 | MCH | TC4420CPA | DIP-8 | 6A high speed MOSFET driver | \$1.49 | \$1.29 |
| 312160 | MAX | MAX7219CNG | DIP-24 | 5V, 8 digit LCD driver | 7.95 | 6.95 |
| 241875 | ♦ | FAN8082 | DIP-8 | 18V, bi-directional DC motor driver .. | .79 | .69 |
| 51131 | ♦ | SN75492P | DIP-14 | 5V, HEX digit driver | 3.95 | 3.49 |

PARALLAX Propeller Microprocessor Chip

Designed for high-speed embedded processing while maintaining low-power and low-current consumption.



| Part No. | Mfr. Part No. | Package | 1 | 10 |
|----------|---------------|---------|--------|--------|
| 2007134 | P8X32A-D40 | DIP-40 | \$9.95 | \$8.95 |

USB-to-Serial Prop Plug for Propeller & BASIC Stamp

Provides a USB-to-serial port connection for microcontroller programming and communication. USB cable included.

PARALLAX



| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|---|---------|---------|
| 2109421 | 32201 | Up to 3Mbps, 3.3V & 5V compatible, 4-pin header | \$17.95 | \$16.95 |

PARALLAX BASIC Stamp Modules

★ Web Code: BSM

| Part No. | Mfr. Part No. | Package | Speed | No. of I/O Pins | 1 | 5 |
|----------|---------------|---------|-------|-----------------|---------|---------|
| 130892 | BS2-IC | 24-pin | 20MHz | 16 + 2 | \$48.95 | \$43.95 |

BASIC STAMP AND PROPELLER SERIES KITS

★ Web Code: MBS

387997



| Part No. | Mfr. P/N | Description | Price |
|----------|----------|---|----------|
| 387997 | 28832 | USB Boe-Bot full kit, completely reprogrammable and uses a BASIC Stamp module, expandable for different robotic projects | \$159.95 |
| 2109202 | 90005 | BASIC Stamp Activity kit, learn electronics and programming, includes What's a Microcontroller? guide, components for over 40 hands-on activities, USB to serial adapter and homework board w/ BASIC Stamp 2 MCU | 89.95 |
| 2191998 | 32500 | ActivityBot Robot kit teaches programming the multicore Propeller in C with easy to follow tutorials. High speed servos with optical encoders, PING sensor, mini audio jack & XBee header. No soldering required. | 219.95 |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Servo Controllers, Drivers/Receivers & Converters

3 LEVELS OF SAVINGS
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Semiconductors

Digital Interface

*Web Code: WBB

| Part No. | Mfr. Part No. | Pkg. | Description | 1 | 10 | 50 |
|----------|---------------|--------|--|--------|--------|--------|
| 171969 | PDN1144 | DIP-18 | Keypad encoder | \$5.19 | \$4.95 | \$4.75 |
| 321736 | PDN2008 | DIP-18 | Pushbutton debouncer w/ 8-independent ch. | 4.95 | 4.49 | 3.95 |

Stepper Motor Drivers/Controllers

*Web Code: GDP

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|---------------------------------------|--------|--------|--------|
| 288067 | ST | L297/1 | DIP-20 | Stepper motor controller, 5V | \$5.95 | \$5.49 | \$4.95 |
| 245403 | ST | L298N | MW-15 | Dual full-bridge driver, 46V | 2.75 | 2.49 | 2.35 |
| 2179016 | ALL | A3958SB | DIP-24 | DMOS full-bridge PWM driver, 50V | .59 | .49 | .29 |
| 288104 | ST | L6203 | MW-11 | DMOS full-bridge driver, 48V | 5.95 | 5.49 | 4.95 |

Motor/Display Drivers

*Web Code: DAD

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|--|--------|--------|--------|
| 1762681 | ALL | UDN2981A-T | DIP-18 | 8-channel source driver | \$2.95 | \$2.75 | \$2.49 |
| 24230 | NSC | LM3914N | DIP-18 | 25V, dot/bar display driver | 2.75 | 2.49 | 2.25 |
| 300003 | NSC | LM3914N-1 | DIP-18 | 25V, dot/bar display driver | 2.49 | 2.19 | 1.75 |
| 24256 | NSC | LM3915N | DIP-18 | 25V, dot/bar display driver | 3.95 | 3.49 | 3.19 |
| 901061 | NSC | LM3915N-1 | DIP-18 | 3db/step, 30db range dot/bar disp. dvr | 3.25 | 2.75 | 2.49 |

KAE Servo Controllers

*Web Code: YBC

PIC-SERVO SC Servo Motion Control I.C.

Controllers operate from standard 8-bit serial interface (RS232 or RS485). Using RS485, any mix of up to 32 controllers may be operated from a single serial port.

- For DC motors (brush or brushless with incremental encoder feedback)
- Serial interface connects to RS232/485/422 communication port
- Position control, velocity control, trapezoidal profiling, plus step and direction inputs



| Part No. | Mfr. Part No. | Package | 1 | 5 | 25 |
|----------|---------------|---------------|---------|---------|---------|
| 323934 | KAE-TOV10-DP | DIP-28, 0.3" | \$29.95 | \$28.49 | \$26.95 |
| 2134432 | KAE-TOV10-SO | SOIC-28, 0.3" | 29.95 | 28.49 | 26.95 |

KAE Industrial Motion Controllers

323942:

- For brush-type DC motors with 2 or 3 channel incremental encoders
- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps



323951:

- For 3-phase brushless motors with Hall effect sensors or conventional DC brush-type motors
- Amplifier capable of driving 6A continuously @ up to 48VDC
- High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
- Support for linear & circular interpolation using the PIC-SERVO CMC chipset



184997:

- Trapezoidal position profiling, velocity mode, up to 50,000 steps/sec.
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
- Integrated indexer and driver for 2 or 4 phase stepper motors

| Part No. | Description | Size (L" x W" x H") | 1 | 5 |
|----------|---------------------------------------|-----------------------|----------|----------|
| 323942 | PIC-SERVO motor control board | 3.1 x 2.1 x 0.9 | \$159.95 | \$154.95 |
| 323951 | PIC-SERVO 3-phase motor control board | 3.1 x 3.1 x 0.9 | 239.95 | 227.95 |
| 184997 | PIC-STEP motor control board | 3.1 x 2.1 x 0.9 | 159.95 | 151.95 |

KAE Smart Serial Adapter

Serial Converter/Stand Alone Host Controller

- Supports USB or RS232 serial interface
- Up to 32 NMC PIC-SERVO, PIC-STEP, PIC-I/O modules can be controlled from a single smart serial adapter
- RS232 operation supports baud rates from 19,200 to 115,200
- Supports Windows®, LINUX, Mac® OS, and other operating systems
- May be used as a stand alone host with either the simple sequencer chip or a PIC18F2620 MCU
- On board connector for MICROCHIP MPLAB ICD2



| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|-----------------|----------------------------|---------|---------|
| 1586120 | KAE-SSA485-BDV2 | Smart serial adapter | \$99.95 | \$94.95 |

Encoders/Decoders

*Web Code: VAR

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|------------------------|--------|--------|--------|
| 296702 | MOT | MC145026P | DIP-16 | Encoder, 4.5-18V | \$2.95 | \$2.75 | \$2.49 |
| 296711 | MOT | MC145027P | DIP-16 | Decoder, 4.5-18V | 2.95 | 2.75 | 2.49 |
| 123730 | HOL | HT12E | DIP-18 | Encoder, 2.4-12V | 1.75 | 1.55 | 1.35 |
| 123748 | HOL | HT12D | DIP-18 | Decoder, 2.4-12V | 1.65 | 1.45 | 1.25 |

RS-232 Drivers/Receivers

*Web Code: EAV

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|---|--------|--------|--------|
| 142535 | + | MAX202CPE | DIP-16 | 5V, 120kbps, w/ 0.1µF ext. caps | \$2.75 | \$2.49 | \$2.25 |
| 24811 | + | MAX232CPE* | DIP-16 | 5V, 200kbps, multichannel | 1.85 | 1.65 | 1.25 |
| 24812 | + | MAX232CPE-R | DIP-16 | 5V, 200kbps, multichannel | 1.49 | 1.25 | .95 |
| 318959 | MAX | MAX232CPE | DIP-16 | 5V, 200kbps, multichannel | 2.25 | 1.95 | 1.49 |
| 698576 | TI | MAX232N | DIP-16 | Dual EIA-232 driver/receiver, C-temp .. | .79 | .69 | .59 |
| 903277 | TI | MAX232IN | DIP-16 | Dual EIA-232 driver/receiver, I-temp | .79 | .69 | .59 |
| 106163 | + | MAX233CPP | DIP-20 | 5V, 120kbps, multichannel | 5.49 | 5.25 | 4.75 |
| 23157 | + | DS1488N* | DIP-14 | 15V, quad line driver | .49 | .39 | .29 |
| 23181 | + | SN75189N* | DIP-14 | 5V, quad line receiver | .39 | .29 | .19 |
| 25099 | + | MC145406P | DIP-16 | 5-12V, EIA-232-D/V-28 driver/rcvr | 1.95 | 1.75 | 1.49 |

*10 pcs. in Linear series IC cabinet kit, pg 10

RS-422/423/485 Drivers/Receivers

*Web Code: NBT

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|---|--------|--------|--------|
| 299807 | + | LTC485CN8 | DIP-8 | RS-485 LP transceiver, 5V | \$2.39 | \$1.65 | \$1.35 |
| 50948 | + | SN75174N | DIP-16 | RS-422 quad diff. line driver w/ 3 st. .. | 1.49 | 1.25 | .95 |
| 50956 | + | SN75175N | DIP-16 | RS-422/423 quad diff. line receiver, 5V | 1.25 | .95 | .75 |
| 758364 | TI | SN75176AP | DIP-8 | RS-422 differential bus transceiver .. | .69 | .59 | .39 |
| 50964 | + | SN75176BN | DIP-8 | RS-422 diff. line bus transceiver, 5V | .59 | .49 | .29 |

A/D & D/A Converters

*Web Code: QAG

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|-------------------------------------|--------|--------|--------|
| 277131 | MAX | MAX110BCPE | DIP-16 | A/D, 14-bit, 5V, 50sps, 2-ch | \$8.95 | \$7.95 | \$6.95 |
| 10153 | NSC | ADC0804LCN | DIP-20 | A/D, 8-bit, 5V, 9.1Ksps, 1-ch | 3.19 | 2.59 | 2.19 |
| 10170 | NSC | ADC0808CCN | DIP-28 | A/D, 8-bit, 5V, 9.1Ksps, 8-ch | 2.75 | 2.49 | 2.25 |
| 10225 | NSC | ADC0820CCN | DIP-20 | A/D, 8-bit, 5V, 1.5µs | 1.95 | 1.75 | 1.59 |
| 116100 | NSC | ADC0831CCN | DIP-8 | A/D, 8-bit, 5V, 32µs | 2.49 | 2.09 | 1.75 |
| 43756 | + | 7107CPL | DIP-40 | A/D, 3 1/2-digit LCD/LED, ±5V | 2.49 | 2.25 | 1.95 |
| 115158 | ADI | AD558JN | DIP-16 | D/A, 8-bit, 5-15V, 1-5-3µs, 1-ch | 11.95 | 10.95 | 9.95 |
| 14904 | NSC | DAC0800LCN | DIP-16 | D/A, 8-bit, 4.5-18V, 150ns | 1.09 | .89 | .69 |
| 14947 | NSC | DAC0808LCN | DIP-16 | D/A, 8-bit, 4.5-18V, 150ns | 1.59 | 1.35 | 1.15 |
| 14963 | NSC | DAC0830LCN | DIP-20 | D/A, 8-bit, 5-15V, 1µs | 3.49 | 3.25 | 2.75 |
| 290052 | TI | TLC7524CN | DIP-16 | D/A, 8-bit, 5-15V, 100ns | 3.25 | 2.95 | 2.49 |

*Ethernet Controllers — Enter Web Code LAE

*Interface Controllers — Enter Web Code HAS

*Motion Control — Enter Web Code DEU

* ADI = Analog Devices | ALL = Allegro | HOL = Holtek | MAX = Maxim | MOT = Motorola | NSC = National | ST = ST Micro | TI = Texas Instruments | + Major Brands

Comparators, Amplifiers & Digital Potentiometers

Comparators

*Web Code: EBS

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|---|--------|--------|--------|
| 23528 | + | LM311N* | DIP-8 | Voltage comparator | \$.39 | \$.35 | \$.29 |
| 23851 | + | LM339N** | DIP-14 | Quad comparator | .25 | .22 | .17 |
| 826742 | TI | LM339N | DIP-14 | Quad differential comparator | .45 | .35 | .25 |
| 120900 | + | LM392N | DIP-8 | Low power op amp./voltage comp. | .99 | .89 | .69 |
| 212177 | + | LM393AN | DIP-8 | Low power low offset volt quad comp. | .29 | .19 | .15 |
| 24281 | + | LM393N* | DIP-8 | Dual comparator | .29 | .25 | .17 |
| 973531 | FSC | LM393N | DIP-8 | Dual differential comparator ±18V | .35 | .29 | .19 |

*10 pcs./**20 pcs. included in Linear kit, pg 10

*Power Management — Enter Web Code PMT

*DC-to-DC Converters — Enter Web Code DCS

ANALOG
DEVICES

Amplifiers

| Part No. | Mfr. | Part No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|----------|-------|--|--------|--------|--------|
| 1780862 | | AD620ANZ | DIP-8 | Low cost, LP instrumentation amp | \$5.95 | \$5.49 | \$5.25 |



Amplifiers

| Part No. | Mfr. | Part No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|----------|-------|-----------------------------------|--------|--------|--------|
| 825934 | | INA126PA | DIP-8 | µPower instrumentation amp. | \$2.75 | \$2.49 | \$2.25 |
| 1780985 | | AD623ANZ | DIP-8 | Single supply, rail-to-rail | 4.49 | 3.95 | 3.59 |

Audio Amps

*Web Code: MBP

| Part No. | Mfr. | Product No. | Pkg./Pins | Description | 1 | 10 | 100 |
|----------|------|---------------|-----------|---|--------|--------|--------|
| 243678 | ADI | OP275GP | DIP-8 | Dual JFET audio op amplifier ... | \$2.75 | \$2.49 | \$1.95 |
| 24037 | NSC | LM380N | DIP-14 | 2-watt, power amplifier | 1.45 | 1.25 | .95 |
| 24088 | NSC | LM383T | TO-220/5 | 7-watt, high power | 5.95 | 5.49 | 4.95 |
| 24096 | NSC | LM384N | DIP-14 | 5-watt audio amplifier | 1.75 | 1.49 | 1.35 |
| 24125 | NSC | LM386N-1* | DIP-8 | Low voltage, 250mW/6V | .85 | .69 | .55 |
| 839826 | NSC | LM386N-1/NOPB | DIP-8 | Low voltage audio power amp. | .95 | .75 | .59 |
| 24133 | NSC | LM386N-3* | DIP-8 | Low voltage, 500mW/9V | .89 | .79 | .59 |
| 24942 | ON | MC1350P | DIP-8 | Video IF amp. (12V operation) | 3.95 | 3.49 | 2.95 |
| 23270 | NSC | LM1875T | TO-220/5 | 20-watt audio power amp. | 2.75 | 2.49 | 2.19 |
| 835753 | NSC | LM1875T/LB03 | TO-220/5 | 20W audio pwr amp. (staggered leads) .. | 2.95 | 2.49 | 2.19 |
| 23288 | NSC | LM1877N-9 | DIP-14 | Dual power audio amplifier | 2.95 | 2.49 | 2.25 |
| 107140 | NSC | LM1881N | DIP-8 | Video synchronous separator | 1.25 | .95 | .75 |
| 32897 | ST | TDA2002V | TO-220/5 | 8-watt audio high power amp. | 4.95 | 4.49 | 3.95 |
| 1416796 | ST | TDA2030AV | PWAT-5 | 18-watt audio amplifier | 2.95 | 2.59 | 2.29 |
| 315344 | ST | TDA2040V | PWAT-5 | 20-watt hi-fi power | 2.95 | 2.75 | 2.49 |
| 275830 | TI | OPA2134PA | DIP-8 | High performance audio op amp. | 2.95 | 2.49 | 2.25 |
| 320670 | NSC | LM3886TF | TO-220/11 | 68-watt high-perf., isol. pkg. | 4.75 | 4.25 | 3.75 |
| 192516 | NSC | LM3886T | TO-220/11 | 68-watt high-performance | 5.95 | 4.75 | 4.49 |
| 302201 | NSC | LM4752T* | TO-220/7 | Stereo 11-watt audio power amp. | 2.95 | 2.75 | 2.49 |
| 316873 | MOT | MC34119D | SOIC-8 | LP audio amp. (500mW, 16VDC) | .59 | .49 | .39 |
| 316865 | MOT | MC34119P | DIP-8 | LP audio amp. (500mW, 16VDC) | 1.49 | 1.25 | .95 |

*10 pieces included in Linear kit, pg 10 * Pull = Extra Savings

Op Amps

*Web Code: WAD

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|---------------------------------------|--------|--------|--------|
| 27852 | + | OP07CP | DIP-8 | Ultra-low offset voltage | \$.79 | \$.69 | \$.55 |
| 115318 | + | OP27GP | DIP-8 | Low noise precision (-40° to 80°C) .. | 2.75 | 2.49 | 1.95 |
| 33187 | + | TL071CP | DIP-8 | Low noise JFET op amp. | .39 | .35 | .25 |
| 33195 | + | TL072CP* | DIP-8 | Low noise JFET dual op amp. | .39 | .35 | .29 |
| 33216 | + | TL074CN* | DIP-14 | Low noise JFET quad op amp. | .45 | .35 | .29 |
| 33232 | + | TL081CP | DIP-8 | JFET input, offset control | .39 | .35 | .25 |
| 33241 | + | TL082CP* | DIP-8 | JFET input dual op amplifier | .49 | .45 | .35 |
| 33267 | + | TL084CN* | DIP-14 | JFET input quad op amplifier | .49 | .39 | .29 |

*10 pcs. 20 pcs. included in Linear cabinet kit, pg 10

Op Amps (Continued)

*Web Code: WAD

| Part No. | Mfr. | Product No. | Pkg./Pins | Description | 1 | 10 | 100 |
|----------|------|--------------|-----------|---|--------|--------|--------|
| 143917 | TI | TLC272CP | DIP-8 | LinCMOS precision dual op amp. | \$.99 | \$.89 | \$.79 |
| 212151 | + | LM301AN* | DIP-8 | Operational amplifier | .69 | .59 | .39 |
| 245673 | + | LM308AH | TO-5/8 | Precision op amplifier | 4.95 | 4.49 | 3.95 |
| 23464 | + | LM308N* | DIP-8 | Precision op amplifier | 6.95 | 6.25 | 5.49 |
| 23608 | NSC | LM318N | DIP-8 | Precision high speed | .89 | .79 | .59 |
| 23683 | + | LM324N** | DIP-14 | Low power quad op amplifier | .29 | .25 | .22 |
| 826671 | TI | LM324N | DIP-14 | Quad op amplifier | .35 | .29 | .25 |
| 22904 | + | LF347N | DIP-14 | Quad JFET input (wide band) | .59 | .49 | .35 |
| 23915 | + | LM348N | DIP-14 | Quad 741 op amp (UPC4741C) | .39 | .35 | .25 |
| 22912 | + | LF351N | DIP-8 | BIFET op amplifier | .99 | .89 | .79 |
| 22939 | + | LF353N* | DIP-8 | Dual BIFET (comp w/ TL082CP) | .39 | .35 | .25 |
| 22971 | NSC | LF356N* | DIP-8 | JFET input (wide band) | .79 | .69 | .49 |
| 22998 | + | LF357N | DIP-8 | JFET input (wide band) | 2.25 | 1.95 | 1.75 |
| 120862 | + | LM358AN | DIP-8 | Low power dual (improved 358N) ... | .25 | .22 | .19 |
| 23966 | + | LM358N* | DIP-8 | Low power dual op amplifier | .29 | .25 | .22 |
| 826793 | TI | LM358P | DIP-8 | Low power dual op amplifier | .39 | .29 | .19 |
| 23018 | + | LF411CN* | DIP-8 | Low offset drift JFET input | 1.09 | .89 | .75 |
| 23026 | + | LF412CN* | DIP-8 | Low offset drift JFET input dual | 1.29 | 1.09 | .89 |
| 106681 | + | LF442CN | DIP-8 | Dual low power JFET input | 1.25 | 1.05 | .79 |
| 119992 | + | LF444CN | DIP-14 | Quad low power JFET input | 1.39 | 1.19 | .95 |
| 143976 | + | LMC660CN | DIP-14 | CMOS quad operational amplifier ... | 1.95 | 1.75 | 1.49 |
| 24539 | + | LM741CN** | DIP-8 | Op amplifier | .29 | .25 | .22 |
| 24540 | + | LM741CN-R | DIP-8 | Op amplifier | .29 | .25 | .22 |
| 830522 | TI | UA741CP | DIP-8 | General purpose op amplifier | .39 | .35 | .29 |
| 840763 | NSC | LM741CN/NOPB | DIP-8 | General purpose op amplifier | .59 | .49 | .35 |
| 24563 | + | LM747CN | DIP-14 | Dual 741 op amplifier | .99 | .89 | .69 |
| 239222 | + | LTC1001CN8 | DIP-8 | Precision op amplifier | 1.25 | .95 | .75 |
| 1745688 | LTC | LTC1050CN8 | DIP-8 | Precision zero-drift op amp w/ internal cap | 3.49 | 3.25 | 2.95 |
| 23131 | + | LM1458N* | DIP-8 | Dual op amplifier | .59 | .49 | .39 |
| 903509 | TI | MC1458P | DIP-8 | Dual general purpose op amplifier ... | .59 | .45 | .29 |
| 1085819 | TI | TLC2272CP | DIP-8 | Advanced LinCMOS® rail-to-rail | 2.09 | 1.89 | 1.49 |
| 1944839 | + | TLV2772CP | DIP-8 | Hi slew rate r-r output, w/ shutdown .. | .99 | .89 | .79 |
| 12116 | + | CA3080E | DIP-8 | Op transconductance amplifier | 3.95 | 3.75 | 3.49 |
| 12183 | + | CA3130E | DIP-8 | CMOS op amplifier | 1.95 | 1.75 | 1.49 |
| 12204 | + | CA3140E | DIP-8 | Bi-MOS op amplifier | 1.59 | 1.45 | 1.29 |
| 24168 | + | LM3900N | DIP-14 | Quad amplifier | .49 | .39 | .25 |
| 251125 | + | MC4558CN | DIP-8 | Wide bandwidth dual bipolar | .59 | .49 | .35 |
| 908289 | TI | RC4558P | DIP-8 | Dual general purpose op amp, ±15V .. | .29 | .25 | .19 |
| 27385 | + | NE5532* | DIP-8 | Dual low noise op amplifier | .49 | .45 | .39 |
| 903963 | TI | NE5532P | DIP-8 | Dual low noise op amplifier | .79 | .69 | .59 |
| 27406 | + | NE5534 | DIP-8 | Low noise op amplifier | .79 | .69 | .59 |
| 302076 | NSC | LM6134BIN | DIP-14 | Quad LP r-r in/out, 10MHz | 2.49 | 2.25 | 1.95 |
| 301356 | NSC | LMC6484AIN | DIP-14 | CMOS quad r-r I/O, lower VOS | 2.95 | 2.75 | 2.35 |
| 192532 | NSC | LM13700N | DIP-16 | Dual op transcon. w/ diodes/buffer .. | 1.69 | 1.45 | 1.19 |
| 871586 | ON | MC33204P | DIP-14 | Low voltage, rail-to-rail | 1.59 | 1.39 | 1.19 |
| 251061 | ON | MC34072P | DIP-8 | Single supply 3V-44V op amplifier ... | .89 | .79 | .59 |

*10 pcs./**20 pcs. included in Linear cabinet kit, pg 10

Digital Potentiometers

*Web Code: JBP

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|--------------|----------|---------------------------------|--------|--------|--------|
| 1778367 | ADI | AD5282BRU200 | TSSOP-16 | Dual, 256 position | \$1.95 | \$1.75 | \$1.49 |
| 241744 | MCH | MCP41010-I/P | DIP-8 | 10kΩ, 256 steps, SPI | 1.39 | 1.29 | .95 |
| 241752 | MCH | MCP42010-I/P | DIP-14 | 10kΩ, 256 steps, 2-ch SPI | 2.09 | 1.89 | 1.49 |

*Real Time Clocks — Enter Web Code RTC

*Supervisory Chips — Enter Web Code SCT

*Analog Switches — Enter Web Code VBN

*ADI = Analog Devices | FSC = Fairchild | LTC = Linear Technology | MCH = Microchip | MOT = Motorola | NSC = National | ON = ON Semi | ST = ST Micro | TI = Texas Ins. | + Major Brands

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Semiconductors

Linear Series

*Web Code: FAD

| Part No. | *Mfr. | Product No. | Pkg./Pins | Description | 1 | 10 | 100 |
|----------|-------|---------------|-----------|---|--------|--------|--------|
| 16301 | ♦ | DS0026CN | DIP-8 | Dual MOS clk. driver (5MHz) | \$3.95 | \$3.49 | \$2.95 |
| 239281 | ♦ | DG201BDJ | DIP-16 | Quad analog switch | 1.19 | .95 | .79 |
| 1341966 | TI | L293DNE | DIP-16 | Quad half-H drivers, I-temp | 3.49 | 2.95 | 2.69 |
| 1342011 | TI | L293NE | DIP-16 | Quad half-H drivers, C-temp | 2.95 | 2.75 | 2.49 |
| 23721 | ♦ | LM331N | DIP-8 | Prec volt to freq convtr (150ppm/°C) | 2.29 | 1.95 | 1.59 |
| 23739 | NSC | LM334Z | TO-92/3 | Adjust current source | .75 | .65 | .45 |
| 23771 | NSC | LM336Z-2.5 | TO-92/3 | Voltage reference (2.5V) | .49 | .45 | .35 |
| 24117 | ♦ | LM385Z-1.2 | TO-92/3 | Micropwr volt. ref. diode (1.2V) | .49 | .39 | .29 |
| 23000 | ♦ | LF398N | DIP-8 | Sample and hold circuit | 1.29 | 1.05 | .79 |
| 33347 | ♦ | TL431CLP | TO-92/3 | Program precision reference | .29 | .15 | .12 |
| 33355 | ♦ | TL494CN | DIP-16 | Contrl circuit pulse-width-modulated | .55 | .45 | .35 |
| 86799 | ♦ | LM555CM | SOIC-8 | Timer | .35 | .25 | .19 |
| 27422 | ♦ | LM555CN* | DIP-8 | Timer (MC1455P/NE555V) | .29 | .22 | .17 |
| 27423 | ♦ | LM555CN-R | DIP-8 | Timer (MC1455P/NE555V) | .35 | .25 | .19 |
| 973646 | FSC | LM555CN | DIP-8 | Timer | .29 | .25 | .19 |
| 126797 | ♦ | LMC555CN* | DIP-8 | CMOS timer | .69 | .59 | .45 |
| 841571 | NSC | LMC555CN/NOPB | DIP-8 | CMOS timer | 1.19 | .95 | .75 |
| 890091 | ST | NE555N | DIP-8 | Gen. purp. single bipolar timer | .49 | .45 | .39 |
| 904085 | TI | NE555P | DIP-8 | Precision timer | .39 | .35 | .25 |
| 761264 | TI | TLC555CD | SOIC-8 | LinCMOS™ timer, C-temp | .59 | .49 | .35 |
| 761272 | TI | TLC555CP | DIP-8 | LinCMOS™ timer, C-temp | .89 | .79 | .69 |
| 24328 | ♦ | LM556N* | DIP-14 | Dual 555 timer | .45 | .39 | .35 |
| 904114 | TI | NE556N | DIP-14 | Dual precision timer | .35 | .29 | .25 |
| 27473 | ST | NE564N | DIP-16 | High freq. phase locked loop | 1.49 | 1.25 | .95 |
| 24395 | ♦ | LM567CN | DIP-8 | Tone decoder | 1.49 | 1.19 | .95 |
| 27490 | ST | NE571N | DIP-16 | Compander, subscriber | 2.95 | 2.75 | 2.49 |
| 115174 | ADI | AD620AN | DIP-8 | Low-cost instrument amp. | 6.49 | 5.25 | 4.49 |
| 1780985 | ADI | AD623ANZ | DIP-8 | Sngl supply r-to-r instrument amp. | 4.49 | 3.95 | 3.59 |
| 115182 | ADI | AD633JN | DIP-8 | Low-cost analog multiplier | 7.95 | 7.25 | 6.49 |
| 23211 | ♦ | MC1496P | DIP-14 | Balanced mod/demodulator | 1.95 | 1.75 | 1.49 |
| 1944821 | ♦ | P1803AC | TO-220 | Balanced three-chip sidactor | .25 | .15 | .12 |
| 34278 | ♦ | ULN2003A* | DIP-16 | Hi-volt/curr. darl. transistor array | .39 | .35 | .25 |
| 1147178 | TI | ULN2003AN | DIP-16 | Hi-volt/curr. darl. transistor array | .49 | .45 | .35 |
| 193826 | ♦ | ULN2003AD | SOIC-16 | Hi-volt/curr. darl. transistor array | .29 | .19 | .15 |
| 2179024 | ♦ | ULQ2003A | DIP-16 | Hi-volt/curr. darl. transistor array | .29 | .19 | .12 |
| 34294 | ♦ | ULN2004AN | DIP-16 | Hi-volt/curr. darl. transistor array | .45 | .35 | .25 |
| 34972 | EXR | XR2206CP | DIP-16 | Monolithic function generator | 7.95 | 7.25 | 6.75 |
| 2231187 | EXR | XR2207CP | DIP-14 | Monolithic voltage CTR oscillator | 1.95 | 1.75 | 1.49 |
| 34999 | ♦ | XR2211 | DIP-14 | FSK demodulator/tone decoder | 1.75 | 1.49 | 1.25 |
| 34315 | ♦ | ULN2803A* | DIP-18 | Hi-volt/curr. darl. transistor array | .69 | .59 | .49 |
| 700664 | TI | ULN2803AN | DIP-18 | Darlington transistor array, I-temp | 1.95 | 1.75 | 1.49 |
| 23317 | NSC | LM2907N | DIP-14 | Frequency to volt converter | .99 | .89 | .79 |
| 12079 | ♦ | CA3046N | DIP-14 | NPN transistor array | 2.95 | 2.75 | 2.49 |
| 12159 | ♦ | CA3086N | DIP-14 | NPN transistor array | 2.95 | 2.59 | 2.29 |
| 51140 | ♦ | 7555IPA | DIP-8 | CMOS timer | .59 | .49 | .39 |
| 53786 | FSC | 9602PC | DIP-16 | Dual retrig. resett. monostable multivib. | .59 | .49 | .39 |
| 1054684 | TI | SN75441ONE | DIP-16 | Quad half-H drivers | 2.19 | 1.85 | 1.55 |

*10 pcs./**20 pcs. included in Linear cabinet kit, above right

*MUX/DEMUXes — Enter Web Code RAB

IC AND IC SOCKET GRAB BAGS

*Web Code: GBS

| Part No. | Product No. | Description | Wt. (lbs.) | 1 | 10 |
|----------|-------------|---|------------|---------|---------|
| 114964 | GB171 | 50 assorted Micros, RAMs, SRAMs, PROMs, EPROMs, CPU, DRAMMs (DIP) | 0.2 | \$12.95 | \$11.49 |
| 105620 | GB120 | 100 assorted sockets (DIP, PGA, SIMM, SIP) | 0.3 | 6.95 | 5.95 |

Linear IC Kit

*Web Code: CKS

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 132 and 30 adhesive labels for drawers to identify parts in kit.

10 each: TL072CP, TL074CN, TL082CP, TL084CN, MAX232CPE, LM301N, LM308N, LM311N, LM337T, LF353N, LF356N, LM358N, LM386N-1, LM386N-3, LM393N, LF411CN, LF412CN, LMC555CN, LM556N, LM723CN, LM1458N, DS1488N, DS1489N, ULN2003A, ULN2803A, NE5532N, 7808T, 78L12, 7815T, 7905T, 7912CT, 7915CT

| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|-----------------------------------|------------|----------|----------|
| 84988 | 480 pcs. (40 types) analog IC kit | 6.0 | \$199.95 | \$179.95 |
| 130411 | Refill for 84988 (480 pcs.) | 1.3 | 184.95 | 169.95 |

*Voltage References — Enter Web Code TBD

Temperature Sensors

*Web Code: WAN

| Part No. | *Mfr. | Product No. | Pkg/Pins | Description | 1 | 10 | 100 |
|----------|-------|---------------|----------|-------------------------------------|--------|--------|--------|
| 107094 | NSC | LM34CZ | TO-92/3 | Prec temp sensor (-40° to +230°F) | \$4.95 | \$4.75 | \$4.25 |
| 155192 | NSC | LM34DZ | TO-92/3 | Prec temp sensor (+32° to +212°F) | 2.39 | 2.09 | 1.79 |
| 107107 | NSC | LM35CZ | TO-92/3 | Prec temp sensor (-40° to 110°C) | 2.95 | 2.49 | 1.95 |
| 2162610 | MCH | TC77-3.3MCTTR | SOT23/5 | High accuracy (-55° to 125°C) | .29 | .22 | .15 |
| 192217 | NSC | LM35DT | TO-220/3 | Prec temp sensor (-55° to 150°C) | 2.19 | 1.79 | 1.49 |
| 155740 | NSC | LM35DZ | TO-92/3 | Prec temp sensor (0° to +100°C) | 1.49 | 1.19 | .95 |
| 278387 | ADI | TMP36GT9 | TO-92 | Low voltage temp. sensor | 1.29 | 1.09 | .95 |
| 120820 | ♦ | LM335AZ | TO-92/3 | Precision temperature sensor | 1.09 | .99 | .79 |
| 23755 | ♦ | LM335Z | TO-92/3 | Volt mode temperature sensor | .75 | .65 | .45 |
| 241939 | ADI | AD590JH | TO-52/3 | Two terminal IC temp transducer | 9.95 | 8.95 | 7.95 |
| 313293 | ADI | AD595AQ | DIP-14 | Thermocouple amp for chromel-alumel | 16.95 | 15.95 | 14.95 |
| 302551 | DAL | DS18S20 | TO-92/3 | High-prec. 1-wire digital thermo | 2.75 | 2.49 | 2.25 |



Hall Effect Sensors

*Web Code: REB

| Part No. | Mfr. Part No. | Pkg. | Description | 1 | 10 | 100 |
|----------|---------------|-------|---|--------|--------|--------|
| 1718743 | A1302EUA-T | SIP-3 | 4.5V to 6V, 11mA, 1.3mV/G sensitivity | \$2.75 | \$2.49 | \$2.25 |
| 2135881 | A1302KUA-T | SIP-3 | 4.5V to 6V, 11mA, 1.3mV/G sensitivity | 1.49 | 1.25 | .95 |
| 1718701 | A1104LUA-T | SIP-3 | 3.8V to 24V, 7.5mA, Brp=25G. Bop=450G | 1.39 | 1.25 | 1.05 |
| 1718911 | A3212EUA-T | SIP-3 | Micropower, ultrasensitive switch | .99 | .89 | .75 |
| 1871879 | OH180U | SIP-3 | Mono IC w/ hall linear amp & sensor .. | 2.95 | 2.75 | 2.49 |

More Hall Effect Sensors on page 73

Voltage Regulators

*Web Code: TAC

| Part No. | *Mfr. | Product No. | Pkg./Pins | Description | 1 | 10 | 100 |
|----------|-------|-------------|-----------|---------------------------------|--------|--------|--------|
| 192268 | NSC | LM317AT | TO-220/3 | 3-terminal adj. (1.2V-37V) | \$1.39 | \$1.25 | \$.95 |
| 192276 | NSC | LM317HVT | TO-220/3 | 3-terminal adj. (1.2V-57V) | 2.09 | 1.75 | 1.45 |
| 23544 | ♦ | LM317K | TO-3/2 | 1.5A adj. positive (1.2V-37V) | 4.95 | 4.49 | 3.95 |
| 23552 | ♦ | LM317LZ | TO-92/2 | 100mA adj. positive (1.2V-37V) | .35 | .29 | .19 |
| 23579 | ♦ | LM317T* | TO-220/3 | 1.5A adj. positive (1.2V-37V) | .39 | .29 | .22 |
| 23580 | ♦ | LM317T-R | TO-220/3 | 1.5A adj. positive (1.2V-37V) | .45 | .35 | .25 |
| 23667 | ♦ | LM323K | TO-3/2 | 5V, 3A positive | 4.75 | 4.25 | 3.59 |
| 23819 | ♦ | LM337T* | TO-220/3 | 1.5A/adj. neg. (-1.2V-37V) | .49 | .45 | .35 |
| 23835 | ♦ | LM338K | TO-3/2 | 5A adj. positive (1.2V-32V) | 8.95 | 8.49 | 7.95 |
| 192284 | NSC | LM338T | TO-220/3 | 5A adjustable | 1.79 | 1.49 | 1.25 |
| 838621 | NSC | LM338T/NOPB | TO-220/3 | 5A adjustable positive | 1.85 | 1.55 | 1.29 |
| 900017 | NSC | LM340T-5.0 | TO-220/3 | 5V, 1A positive, I-temp | .99 | .89 | .69 |
| 23931 | ♦ | LM350K | TO-3/2 | 3A/3 term. adj. pos. (1.2V-33V) | 7.95 | 7.25 | 6.49 |
| 23940 | ♦ | LM350T | TO-220/3 | 3A adjustable power | .69 | .59 | .45 |
| 24467 | ♦ | LM723CN* | DIP-14 | Voltage regulator (2V-37V) | .45 | .39 | .29 |
| 107166 | NSC | LM2936Z-5.0 | TO-92/3 | Ultra-low quiescent curr. 5V | 1.25 | .95 | .75 |
| 51246 | ♦ | 7805K | TO-3/2 | 5V, 1A positive (LM340K-5) | 2.49 | 2.25 | 1.95 |
| 51262 | ♦ | 7805T** | TO-220/3 | 5V, 1A positive (LM340T-5) | .29 | .25 | .22 |

*10 pcs./**20 pcs. included in Linear kit, above

*ADI = Analog Devices | DAL = Dallas Semi | EXR = EXAR | FSC = Fairchild Semi | MCH = Microchip | NSC = National | ST = ST Micro | TI = Texas Ins. | ♦ Major Brands

Voltage Regulators & IC Sockets

Voltage Regulators (Continued)

*Web Code: TAC

| Part No. | Mfr. | Product No. | Pkg./Pins | Description | 1 | 10 | 100 |
|----------|------|-------------|-----------|--------------------------------|-------|-------|-------|
| 51263 | + | 7805T-R | TO-220/3 | 5V, 1A positive (LM340T-5) ... | \$.35 | \$.29 | \$.25 |
| 924570 | ST | L7805ACV | TO-220/3 | 5V, 1.5A positive | .49 | .39 | .25 |
| 924633 | ST | L7805CV | TO-220/3 | 5V, 1.5A positive | .45 | .35 | .29 |
| 1991651 | ST | L7805ABV | TO-220/3 | 5V, 1A positive | .49 | .39 | .29 |
| 1991678 | ST | L7805ACP | TO-220/3 | 5V, 1A positive | .69 | .55 | .39 |
| 786138 | FSC | LM7805CT | TO-220/3 | 5V, 1A positive, I-temp | .45 | .39 | .35 |
| 876221 | ON | MC7805CT | TO-220/3 | 5V, 1A positive, C-temp | .35 | .29 | .22 |
| 51182 | + | 78L05** | TO-92/3 | 5V, 100mA positive | .25 | .22 | .17 |
| 192233 | + | 78M05 | TO-220/3 | 5V, 500mA positive | .35 | .29 | .22 |
| 889461 | ST | L78S05CV | TO-220/3 | 5V, 2A positive | .59 | .49 | .35 |
| 51297 | + | 7806T | TO-220/3 | 6V, 1A positive (LM340T-6) | .35 | .29 | .25 |
| 51300 | + | 7808T* | TO-220/3 | 8V, 1A positive (LM340T-8) | .35 | .29 | .19 |
| 65162 | + | 78L08A | TO-92/3 | 8V, 100mA positive | .25 | .19 | .15 |
| 876352 | ON | MC7809CT | TO-220/3 | 9V, 2.2A positive, C-temp | .39 | .35 | .22 |
| 1958641 | FSC | LM7809CT | TO-220/3 | 9V, 2.2A positive | .49 | .39 | .29 |
| 192225 | + | 78L09ACZ | TO-92/3 | 9V, 100mA positive | .35 | .29 | .22 |
| 51318 | + | 7812K | TO-3/2 | 12V, 1A pos. (LM340K-12) | 2.95 | 2.75 | 2.49 |
| 51334 | + | 7812T** | TO-220/3 | 12V, 1A pos. (LM340T-12) | .29 | .25 | .22 |
| 889305 | ST | L7812CV | TO-220/3 | 12V, 1.5A positive | .39 | .29 | .22 |
| 902127 | NSC | LM7812CT | TO-220/3 | 12V, 1A positive | 1.49 | 1.19 | .95 |
| 51203 | + | 78L12* | TO-92/3 | 12V, 100mA positive | .35 | .29 | .22 |
| 51377 | + | 7815T* | TO-220/3 | 15V, 1A positive (LM340T-15) | .35 | .29 | .25 |
| 51414 | + | 7824T | TO-220/3 | 24V, 1A positive (LM340T-24) | .35 | .29 | .25 |
| 194669 | + | 78L24 | TO-92/3 | 24V, 100mA positive | .25 | .19 | .15 |
| 51457 | + | 7905T* | TO-220/3 | -5V, 1A neg. (LM320T-5) | .35 | .29 | .25 |
| 51422 | + | 79L05 | TO-92/3 | -5V, 100mA negative | .29 | .22 | .15 |
| 2132269 | + | 7906A | TO-220/3 | -6V, 500mA negative | .29 | .19 | .15 |
| 51481 | + | 7912T* | TO-220/3 | -12V, 1A neg. (LM320T-12) | .35 | .29 | .25 |
| 51502 | + | 7915T* | TO-220/3 | -15V, 1A neg. (LM320T-15) | .39 | .35 | .25 |
| 2205237 | + | GL-7924 | TO-220/3 | -24V, 2.2A | .29 | .19 | .15 |
| 316945 | MOT | MC34063AP1 | DIP-8 | 1.5 step-up/down invert sw reg | .59 | .49 | .35 |

*10 pcs./ **20 pcs. included in Linear kit, pg 10

Low Drop-Out Voltage Regulators

*Web Code: MBT

| Part No. | Mfr. | Product No. | Pkg./Pins | Description | 1 | 10 | 100 |
|----------|------|--------------------|-----------|-----------------------------------|--------|--------|--------|
| 299743 | NSC | LM1084IT-ADJ | TO-220/3 | 5A low dropout adj. pos. | \$2.39 | \$2.25 | \$1.85 |
| 299735 | NSC | LM1084IT-3.3 | TO-220/3 | 5A low dropout 3.3V pos. | 2.59 | 2.29 | 1.89 |
| 192305 | + | LM1086CT-3.3 | TO-220/3 | 1.5A low dropout pos. (3.3V) | 1.29 | 1.19 | 1.09 |
| 1390194 | ST | LD1086V90 | TO-220 | 1.5A, 9V LDO | .29 | .19 | .15 |
| 242114 | + | LM1117T-3.3 | TO-220/3 | 800mA, 3.3V, LDO | .89 | .79 | .69 |
| 242115 | NSC | LM1117T-3.3/NOPB | TO-220/3 | 800mA, 3.3V, LDO | 1.35 | 1.09 | .89 |
| 897188 | NSC | LM2937ET-3.3 | TO-220/3 | 500mA, 3.3V LDO, I-temp | 1.29 | 1.09 | .89 |
| 297810 | NSC | LM2937ET-5.0 | TO-220/3 | 500mA, 5V LDO | .99 | .89 | .69 |
| 107182 | + | LM2940CT-5 | TO-220/3 | 5V LDO reg. (max. 45Vin) | 1.29 | 1.09 | .89 |
| 837505 | NSC | LM2940T-5.0/NOPB | TO-220/3 | 1A, 5V LDO, I-temp | 1.45 | 1.25 | .95 |
| 121064 | + | LM2941CT | TO-220/5 | 1A LDO adjustable (45Vin) | 1.19 | .95 | .79 |
| 1944880 | + | LP2950ACN | TO-92/3 | 100mA 5V LDO regulator | .39 | .29 | .22 |
| 1323397 | NSC | LP2950ACZ-3.3/NOPB | TO-92 | 3.3V μ prv volt. reg., I-temp | .75 | .65 | .49 |
| 2135671 | + | AS2954-5.0 | TO-92/3 | 5.0V, 250mA LDO | .25 | .19 | .12 |
| 192524 | + | LM3940IT-3.3 | TO-220/3 | 1A LDO for 5V to 3.3V | 1.49 | 1.35 | 1.09 |

*Power Drivers and Modules — Enter Web Code REK

| HAMLIN RELAYS | | | | |
|---------------|------------------------|--------|--------|--------|
| Part No. | Description | 1 | 10 | 100 |
| 2202731 | 5V @ .25A, SPDT, 5-pin | \$1.75 | \$1.49 | \$1.25 |
| 2202722 | 5V @ .5A, SPST, 4-pin | 1.75 | 1.49 | 1.25 |

Simple Switcher Voltage Regulators

*Web Code: VAX

| Part No. | Mfr. | Product No. | Pkg./Pins | Description | 1 | 10 |
|----------|------|---------------|-----------|------------------------------------|-------|-------|
| 156566 | + | LM2574N-5 | DIP-8 | 5V step-down regulator | \$.99 | \$.89 |
| 192381 | NSC | LM2576HVT-5.0 | TO-220/5 | 3A step down V-reg, high Vin range | 2.95 | 2.75 |
| 192372 | NSC | LM2576HVT-ADJ | TO-220/5 | 3A step-down V-reg, high Vin range | 4.49 | 3.95 |
| 245569 | + | LM2576T-5.0 | TO-220/5 | 3A step-down voltage regulator | 1.95 | 1.75 |
| 120977 | + | LM2576T-ADJ | TO-220/5 | 3A step-down voltage regulator | 2.25 | 1.95 |

*Switching Regulators — Enter Web Code DEN

PLCC Thru-Hole Sockets

*Web Code: YAH

- Solder tail allows thru-hole board patterns in .100" grid
- Thru-hole lead length: .125"
- Accepts JEDEC type "A" plastic leaded chip (0.05" centers)

JAMECO ValuePro

71969



| Part No. | Mfr. | Product No. | Pins | Body Height (in.) | 1 | 10 | 100 |
|----------|------|-------------|------|-------------------|-------|-------|-------|
| 71618 | + | G1P444 | 44 | .375 | \$.89 | \$.79 | \$.69 |
| 72442 | JVP | G1P452 | 52 | .375 | .99 | .89 | .79 |
| 71969 | JVP | G1P468 | 68 | .375 | .99 | .89 | .79 |
| 71977 | JVP | G1P484 | 84 | .375 | .89 | .79 | .69 |

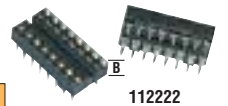
Single/Dual Wipe Solder Tail Low-Profile IC Sockets

- Contact current: 1A
- Contact resistance: less than 5m Ω
- Dielectric withstanding voltage: 300V
- Insulation resistance: greater than 1000M Ω
- Thru-hole lead length: .140" (A)
- Body height: .188" (B)

JAMECO ValuePro

*Web Code: WAP

112222



Order in multiples of 10

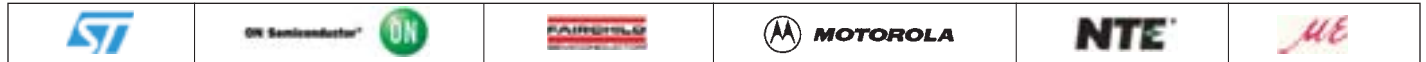
| Part No. | Mfr. | Product No. | Pins | Width (in.) | 10 | 100 | 1000 |
|----------|------|--------------------|------|-------------|-------|-------|-------|
| 112193 | JVP | 6LPD | 6 | 0.3 | \$.15 | \$.12 | \$.11 |
| 51571 | + | 8LPD | 8 | 0.3 | .13 | .10 | .08 |
| 112206 | JVP | 8LPD | 8 | 0.3 | .14 | .11 | .09 |
| 37162 | JVP | 14LP (single wipe) | 14 | 0.3 | .13 | .10 | .09 |
| 112214 | JVP | 14LPD | 14 | 0.3 | .14 | .11 | .10 |
| 37372 | JVP | 16LP (single wipe) | 16 | 0.3 | .12 | .10 | .08 |
| 37373 | + | 16LPD | 16 | 0.3 | .18 | .12 | .10 |
| 112222 | JVP | 16LPD | 16 | 0.3 | .20 | .13 | .11 |
| 38113 | JVP | 18LP (single wipe) | 18 | 0.3 | .14 | .12 | .09 |
| 112231 | JVP | 18LPD | 18 | 0.3 | .17 | .16 | .12 |
| 38607 | JVP | 20LP (single wipe) | 20 | 0.3 | .19 | .12 | .10 |
| 112248 | + | 20LPD | 20 | 0.3 | .17 | .16 | .14 |
| 38608 | JVP | 20LPD | 20 | 0.3 | .18 | .17 | .15 |
| 112256 | JVP | 22SLPD | 22 | 0.3 | .19 | .14 | .12 |
| 39132 | JVP | 22LPD | 22 | 0.4 | .17 | .16 | .14 |
| 39378 | + | 24SLPD | 24 | 0.3 | .24 | .22 | .19 |
| 112264 | + | 24LPD | 24 | 0.6 | .24 | .22 | .18 |
| 112266 | JVP | 24LPD | 24 | 0.6 | .26 | .24 | .20 |
| 112299 | + | 28SLPD | 28 | 0.3 | .25 | .23 | .21 |
| 112300 | JVP | 28SLPD | 28 | 0.3 | .26 | .24 | .22 |
| 112272 | + | 28LPD | 28 | 0.6 | .24 | .22 | .19 |
| 40301 | JVP | 28LPD | 28 | 0.6 | .26 | .24 | .21 |
| 137621 | JVP | 32SLPD | 32 | 0.3 | .14 | .10 | .08 |
| 689979 | + | ED32DT | 32 | 0.6 | .19 | .14 | .10 |
| 112301 | JVP | 32LPD | 32 | 0.6 | .25 | .22 | .19 |
| 41110 | JVP | 40LP (single wipe) | 40 | 0.6 | .29 | .25 | .22 |
| 41111 | + | 40LPD | 40 | 0.6 | .33 | .30 | .26 |
| 112311 | JVP | 40LPD | 40 | 0.6 | .40 | .36 | .30 |

* FSC = Fairchild | JVP = Jameco ValuePro | MOT = Motorola | NSC = National | ON = ON Semi | ST = ST Micro | + Major Brands

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com



AMP DIP Low-Profile IC Sockets

*Web Code: QAF

Economy Ladder Style

- Dual wipe
- Housing: glass filled thermoplastic, black
- Contacts: phosphor bronze tin plating

| Part No. | Mfr. Part No. | Pos. | Plating | Width (in.) | 10 | 100 | 1000 |
|----------|---------------|------|----------|-------------|-----|-----|------|
| 526299 | 390261-2 | 8 | 60µ" tin | 0.3 | .16 | .14 | .12 |
| 526213 | 390261-5 | 18 | 60µ" tin | 0.3 | .16 | .13 | .11 |
| 683139 | 1-390261-5 | 18 | 60µ" tin | 0.3 | .19 | .16 | .12 |
| 683198 | 1-390262-1 | 24 | 60µ" tin | 0.6 | .27 | .23 | .22 |

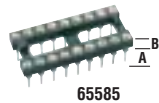


Order in multiples of 10

Machine Tooled Solder Tail Low-Profile IC Sockets

- Contact plating: gold
- Contact current: 1A
- Contact resistance: less than 5mΩ
- Dielectric withstanding voltage: 300V_{RMS}
- Insulation resistance: greater than 1000MΩ
- Material: beryllium copper or phosphor bronze
- Tin-plated leads
- Thru-hole lead length: .177" (A) • Body height: .117" (B)

JAMECO ValuePro



*Web Code: GBA

| Part No. | Cross Ref. No. | Pins | Width (in.) | 1 | 10 | 100 |
|----------|----------------|------|-------------|------|------|-----|
| 167004 | 6MLP | 6 | 0.3 | .39 | .29 | .19 |
| 51626 | 8MLP | 8 | 0.3 | .49 | .45 | .29 |
| 2230352 | 14MLP* | 14 | 0.3 | .49 | .45 | .35 |
| 37197 | 14MLP | 14 | 0.3 | .65 | .55 | .39 |
| 37402 | 16MLP | 16 | 0.3 | .75 | .59 | .45 |
| 65585 | 18MLP | 18 | 0.3 | .89 | .75 | .55 |
| 38623 | 20MLP | 20 | 0.3 | .89 | .75 | .55 |
| 39386 | 24SMLP | 24 | 0.3 | .89 | .79 | .59 |
| 39351 | 24MLP | 24 | 0.6 | 1.09 | .89 | .65 |
| 114412 | 28SMLP | 28 | 0.3 | 1.09 | .89 | .65 |
| 40328 | 28MLP | 28 | 0.6 | 1.19 | .95 | .69 |
| 40329 | 28MLP-R | 28 | 0.6 | 1.25 | .99 | .75 |
| 105381 | 32MLP | 32 | 0.6 | 1.35 | 1.09 | .89 |
| 41136 | 40MLP | 40 | 0.6 | 1.69 | 1.39 | .95 |

*.240" pin length

Machine Contact Dual-In-Line Female Sockets

- 0.100" centers
- Pin sleeve: tin
- Solder tail contact: .114"L
- Contact clip: gold

*Web Code: KAM

JAMECO ValuePro



| Part No. | Cross Ref. No. | Pins | 1 | 10 | 100 |
|----------|----------------|------|-----|-----|-----|
| 212856 | SA101000 | 10 | .59 | .49 | .39 |
| 212936 | SA481000 | 48 | .69 | .59 | .49 |

.100" Single-In-Line Machine Tooled Strip Sockets

- Solder tail or wire wrap

JAMECO ValuePro *Web Code: KAM

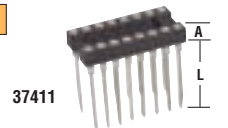


| Part No. | Description | Pins | Lead Length (in.) | 1 | 10 | 100 |
|----------|---------------------|------|-------------------|------|------|------|
| 164822 | Straight single row | 4 | .160 | .69 | .59 | .49 |
| 138684 | Straight single row | 5 | .160 | .39 | .29 | .19 |
| 2100339 | Straight single row | 7 | .160 | .39 | .29 | .19 |
| 102201 | Straight single row | 10 | .160 | .99 | .89 | .69 |
| 2125675 | Straight single row | 14 | .160 | .49 | .39 | .29 |
| 78642 | Straight single row | 30 | .160 | 1.49 | 1.29 | .95 |
| 175920 | Straight single row | 36 | .160 | 1.75 | 1.59 | 1.29 |
| 101283 | WW2 single row | 20 | .500 (2) | 2.19 | 1.95 | 1.75 |
| 104054 | WW3 single row | 30 | .575 (3) | 2.95 | 2.75 | 2.49 |

3 Level Machine Tooled Wire Wrap IC Sockets

*Web Code: FAL

- Contact plating: gold
- Sleeve material: brass
- Contact resis.: less than 5m • Tin-plated leads
- Material: beryllium copper or phosphor bronze
- Dielectric withstanding voltage: 300V_{RMS}
- Insulation resistance: greater than 1000MΩ
- Body height: .115" (A) • Thru-hole lead length: .586" (L)
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide



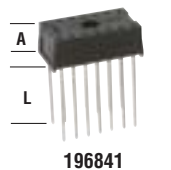
| Part No. | Cross Ref. No. | Pins | Width (in.) | 1 | 10 | 100 |
|----------|----------------|------|-------------|--------|--------|--------|
| 94474 | 8MSWW3 | 8 | 0.3 | \$1.49 | \$1.35 | \$1.19 |
| 62051 | 14MSWW3 | 14 | 0.3 | 1.75 | 1.55 | 1.39 |
| 37411 | 16MSWW3 | 16 | 0.3 | 2.25 | 1.95 | 1.75 |
| 94482 | 18MSWW3 | 18 | 0.3 | 2.49 | 2.25 | 1.95 |
| 38632 | 20MSWW3 | 20 | 0.3 | 2.49 | 2.25 | 1.95 |
| 105372 | 24MSWW3 | 24 | 0.3 | 2.25 | 1.95 | 1.75 |
| 94491 | 24MSWW3 | 24 | 0.6 | 2.95 | 2.75 | 2.49 |
| 200716 | 28MSWW3 | 28 | 0.3 | 3.25 | 2.95 | 2.75 |
| 94503 | 40MSWW3 | 40 | 0.6 | 4.95 | 4.49 | 3.95 |

2 & 3 Level Wire Wrap IC Sockets

*Web Code: SAF

- Contact plating/leads: tin (TWW); dual wipe
- Contact current: 1A • Contact resistance: <5mΩ
- Sleeve material: brass
- Dielectric withstanding volt.: 300V
- Material: beryllium copper or phosphor bronze
- Insulation resistance: greater than 1000MΩ
- Insulator: glass-filled polyester or glass-filled polyphenylene sulfide
- Thru-hole lead length: .438" (L2); .638" (L3) • Body height: .300" (A)

JAMECO ValuePro



| Part No. | Manufacturer | Product No. | Pins | Width (in.) | 1 | 10 | 100 |
|----------|------------------|-------------|------|-------------|--------|--------|--------|
| 196841 | ValuePro | 14TWW3 | 14 | 0.3 | \$1.29 | \$1.09 | \$.89 |
| 37437 | Circuit Assembly | 16TWW2 | 16 | 0.3 | 2.95 | 2.75 | 2.49 |

Wire Wrap IC Socket I.D. Marker

- Material: plastic
- Can easily write location, part number or function
- Quick identification of pin numbers
- Slips onto socket before wrapping

*Web Code: YAG



| Part No. | Product No. | Pins | Width (in.) | 1 | 10 | 100 |
|----------|-------------|------|-------------|-------|-------|-------|
| 37145 | ID-14-100 | 14 | 0.3 | \$.69 | \$.59 | \$.45 |

SIMM Vertical Socket

*Web Code: WAL

- Locking tabs
- Memory module sockets
- Tinned contacts
- Keyed mounting posts



| Part No. | Cross Ref. No. | Description | 1 | 10 | 100 |
|----------|----------------|---------------------------|--------|--------|--------|
| 100302 | 2000-1X30S | Single x 30-pin, vertical | \$1.49 | \$1.35 | \$1.19 |

SOIC/SOJ to DIP Adapters

*Web Code: YBS

- Board material: 0.062" thick FR-4 w/ 1 oz. copper traces on both sides
- Brass alloy pins with 200µ" (5.08µm) min. tin plating
- Operating temperature: 221°F (105°C) max.
- Suggested PCB hole size: 0.028"Dia. (0.71mm)
- Center pins: 0.300" (7.62mm)

JAMECO ValuePro



| Part No. | Mfr. Part No. | Pins | Size (L" x W") | 1 | 10 | 100 |
|----------|----------------|------|----------------|--------|--------|--------|
| 291208 | 08-350000-11RC | 8 | .400 x .46 | \$5.95 | \$5.49 | \$4.95 |
| 291515 | 16-350000-11RC | 16 | .800 x .45 | 6.95 | 6.25 | 5.49 |

*Transistors — Enter Web Code FEN

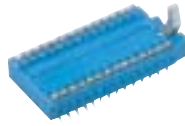


Low Profile ZIF Sockets

*Web Code: **UBX**

Series 526

- Body: UL 94V-0 glass-filled polyester thermoplastic
- Beryllium copper alloy spring tempered contacts w/ 200µ" (5.08µm) tin plating
- Contact res.: 10mΩ max. • Contact current: 2A
- Breakdown voltage: 1000VAC min.
- Center pins: .600" (15.24mm) • Zinc alloy cam
- Operating temp.: -67°F to 221°F (-55°C to 105°C)
- Suggested PCB hole size: .035" Dia. (0.89mm)



102745

| Part No. | Mfr. Part No. | Pins | Size (L" x W") | 1 | 5 | 25 |
|----------|---------------|------|----------------|--------|--------|--------|
| 102745 | 28-526-10 | 28 | 1.64 x .75 | \$9.95 | \$8.95 | \$7.95 |
| 102753 | 40-526-10 | 40 | 2.24 x .75 | 10.49 | 9.49 | 8.49 |



High Temp. Universal ZIF Test Sockets

Series 6554

- Accepts devices on .300" to .600" (7.62mm to 15.24mm) centers
- -10: 100µ" tin over 50µ" nickel; -11: 10µ" gold over 50µ" nickel
- Operating temperature:
 - 10: 221°F (105°C) – tin plating
 - 11: 302°F (150°C) – gold plating
- Socket body: UL 94V-0 glass-filled PPS • Beryllium copper contact plating
- Stainless steel handle • Center pins: 0.600" • Insulation resistance: 1000MΩ
- Contact current: 1A • Dielectric withstanding voltage: 1000VAC

*Web Code: **AAN**



104012

| Part No. | Mfr. Part No. | Pins | Size (L" x W") | 1 | 5 | 25 |
|----------|---------------|------|----------------|--------|--------|--------|
| 104003 | 28-6554-10 | 28 | 2.0 x 0.9 | \$9.95 | \$9.25 | \$8.75 |
| 104012 | 32-6554-10 | 32 | 2.1 x 0.9 | 10.95 | 9.95 | 8.95 |
| 104030 | 40-6554-10 | 40 | 2.5 x 0.9 | 11.95 | 10.95 | 9.95 |

Transistors

*Web Code: **FEN**

| * Order in multiples of 10 | | | | | | | | | |
|----------------------------|-------|-------------|--------|-------|------------------|-----------------------------|------|-------|------|
| Part No. | *Mfr. | Product No. | Pkg. | Desc. | V _{ceo} | Min. (h _{FE} @ Ic) | 1 | 10 | 100 |
| 26462 | ♦ | MPSA06 | TO-92 | NPN | 80 | 100k @ .01A | *.15 | \$.11 | |
| 26489 | ♦ | MPSA13* | TO-92 | NPN | 30 | 5k @ .01A | *.12 | .10 | |
| 210593 | ♦ | MPSA14 | TO-92 | NPN | 30 | 20k @ .10A | *.29 | .25 | |
| 210681 | ♦ | MPSA18* | TO-92 | NPN | 45 | 500 @ .001A | *.29 | .25 | .19 |
| 33048 | ♦ | TIP31A* | TO-220 | NPN | 60 | 10 @ 3A | .39 | .35 | .25 |
| 179354 | FSC | TIP31C | TO-220 | NPN | 100 | 10 @ 3A | .39 | .35 | .25 |
| 890568 | ST | TIP35C | TO-247 | NPN | 100 | 25 @ 1.5A | 1.59 | 1.35 | 1.09 |
| 179371 | ♦ | TIP41C | TO-220 | NPN | 100 | 15 @ 3A | .49 | .39 | .29 |
| 178546 | ♦ | MPSA42 | TO-92 | NPN | 30 | 40 @ .03A | *.19 | .09 | |
| 32977 | ♦ | TIP102* | TO-220 | NPN | 100 | 1k @ 3A | .49 | .39 | .29 |
| 32993 | ♦ | TIP120* | TO-220 | NPN | 60 | 1k @ 3A | .39 | .29 | .22 |
| 32994 | ♦ | TIP120-R | TO-220 | NPN | 60 | 1k @ 3A | .45 | .35 | .25 |
| 179291 | FSC | TIP120 | TO-220 | NPN | 60 | 1k @ 3A | .49 | .39 | .29 |
| 120416 | ♦ | TIP122 | TO-220 | NPN | 100 | 1k @ 3A | .55 | .39 | .29 |
| 179303 | FSC | TIP122 | TO-220 | NPN | 100 | 1k @ 3A | .59 | .45 | .35 |
| 260558 | NTE | NTE123AP | TO-92 | NPN | 40 | 40 @ .001A | 1.49 | 1.25 | 1.09 |
| 890445 | ST | TIP142 | TO-218 | NPN | 100 | 1k @ 0.5A | 1.49 | 1.29 | 1.05 |
| 2132293 | ♦ | BD158 | TO-126 | NPN | 300 | 30 @ .05A | .25 | .12 | .09 |
| 254810 | ♦ | BC337 | TO-92 | NPN | 45 | 100 @ .10A | *.15 | .12 | |
| 254801 | ♦ | BC547B | TO-92 | NPN | 45 | 330 @ .002A | *.12 | .09 | |
| 254799 | ♦ | BC547C | TO-92 | NPN | 45 | 600 @ .002A | *.10 | .08 | |
| 254781 | ♦ | BC548B | TO-92 | NPN | 30 | 110 @ .002A | *.12 | .06 | |
| 38228 | ♦ | 2N2219A | TO-39 | NPN | 40 | 100 @ .15A | .79 | .69 | .59 |
| 26446 | ♦ | MPQ2222 | DIP-14 | NPN | 40 | 100 @ .15A | 2.95 | 2.75 | 2.49 |
| 28628 | ♦ | PN2222* | TO-92 | NPN | 30 | 100 @ .15A | .25 | .14 | .08 |
| 38236 | ♦ | 2N2222A* | TO-18 | NPN | 40 | 100 @ .15A | .89 | .79 | .69 |
| 38237 | ♦ | 2N2222A-R | TO-18 | NPN | 40 | 100 @ .15A | .99 | .89 | .79 |
| 210673 | ♦ | MPS2222A | TO-92 | NPN | 40 | 40 @ .50A | *.19 | .15 | |
| 178511 | ♦ | PN2222A | TO-92 | NPN | 40 | 100 @ .15A | *.11 | .05 | |
| 178512 | ♦ | PN2222A-R | TO-92 | NPN | 40 | 100 @ .15A | *.12 | .06 | |

*10 pcs./**100 pcs. in Transistor cabinet kit, right

Transistors (Continued)

*Web Code: **FEN**

| * Order in multiples of 10 | | | | | | | | | |
|----------------------------|-------|-------------|---|-------|------------------|-----------------------------|------|-------|------|
| Part No. | *Mfr. | Product No. | Pkg. | Desc. | V _{ceo} | Min. (h _{FE} @ Ic) | 1 | 10 | 100 |
| 787536 | FSC | PN2222ABU | TO-92 | NPN | 40 | 300 @ .15A | *.12 | \$.06 | |
| 38295 | ♦ | 2N3053* | TO-39 | NPN | 40 | 25 @ .15A | .89 | .79 | .69 |
| 38308 | ♦ | 2N3055* | TO-3 | NPN | 60 | 15 @ 10A | 1.19 | 1.09 | .99 |
| 211406 | ♦ | 2N3055A | TO-3 | NPN | 60 | 20 @ 4A | 2.49 | 2.25 | 1.95 |
| 211385 | ♦ | TIP3055 | TO-247 | NPN | 60 | 5 @ .001A | 1.29 | 1.09 | .85 |
| 25857 | ♦ | MJE3055T | TO-220 | NPN | 60 | 20 @ 4A | .59 | .49 | .35 |
| 209242 | ♦ | 2N3771 | TO-3 | NPN | 40 | 15 @ 15A | 2.25 | 1.95 | 1.75 |
| 38359 | ♦ | 2N3904** | TO-92 | NPN | 40 | 100 @ .01A | *.09 | .06 | |
| 38360 | ♦ | 2N3904-R | TO-92 | NPN | 40 | 100 @ .01A | *.12 | .07 | |
| 178597 | FSC | 2N3904 | TO-92 | NPN | 40 | 100 @ .01A | *.14 | .08 | |
| 783421 | FSC | 2N3904BU | TO-92 | NPN | 40 | 100 @ .01A | *.14 | .08 | |
| 38421 | ♦ | 2N4401* | TO-92 | NPN | 40 | 100 @ .15A | *.11 | .05 | |
| 783498 | FSC | 2N4401TA | TO-92 | NPN | 40 | 20 @ .1mA | *.12 | .06 | |
| 62316 | ♦ | 2N5088 | TO-92 | NPN | 30 | 300 @ .05A | .25 | .14 | .07 |
| 1201429 | FSC | 2N5088BU | TO-92 | NPN | 30 | 300 @ .05A | *.15 | .08 | |
| 140373 | ♦ | 2N5179 | TO-72 | NPN | 12 | 25 @ .003A | 2.95 | 2.59 | 2.25 |
| 1945081 | FSC | 2N5306 | TO-92 | NPN | 25 | 7000 @ .002A | *.19 | .12 | |
| 2158979 | ♦ | 2N6284 | TO-3/2 | NPN | 100 | 750 @ 10A | 1.95 | 1.75 | 1.49 |
| 924300 | ON | 2N6284 | TO-3/2 | NPN | 100 | 750 @ 10A | 4.25 | 3.59 | 3.19 |
| 1945031 | FSC | MPS6515 | TO-92 | NPN | 25 | 250 @ .002A | .25 | .059 | .045 |
| 194618 | ♦ | 2N6547 | TO-3 | NPN | 400 | 12 @ 5A | 3.95 | 3.49 | 2.95 |
| 33064 | ♦ | TIP32A* | TO-220 | PNP | 60 | 10 @ 3A | .39 | .35 | .25 |
| 181841 | ♦ | TIP32C | TO-220 | PNP | 100 | 10 @ 3A | .39 | .35 | .25 |
| 890592 | ST | TIP36C | TO-218 | PNP | 100 | 25 @ 1.5A | 1.59 | 1.35 | 1.09 |
| 33101 | ♦ | TIP42A | TO-220 | PNP | 60 | 15 @ 3A | .29 | .25 | .22 |
| 139580 | ♦ | TIP42C | TO-220 | PNP | 100 | 15 @ 3A | .49 | .39 | .29 |
| 179258 | ♦ | TIP107 | TO-220 | PNP | 100 | 1k @ 3A | .49 | .39 | .29 |
| 33013 | ♦ | TIP125 | TO-220 | PNP | 60 | 1k @ 3A | .49 | .39 | .29 |
| 179320 | ♦ | TIP127 | TO-220 | PNP | 100 | 1k @ 3A | .45 | .35 | .25 |
| 890488 | ST | TIP147 | TO-218 | PNP | 100 | 1k @ 5A | 1.49 | 1.29 | 1.09 |
| 260611 | NTE | NTE159 | TO-92 | PNP | 80 | 50 @ .01A | 1.09 | .99 | .89 |
| 1215986 | ♦ | BC327 | TO-92 | PNP | 45 | 100 @ .10A | *.12 | .08 | |
| 2159710 | MOT | BC411 | TO-92 | PNP | 45 | 350 @ .10A | .25 | .09 | .059 |
| 2169521 | ON | BC557CG | TO-92 | PNP | -45 | 800 @ -2A | .49 | .45 | .39 |
| 194378 | ♦ | 2N2905A | TO-39/3 | PNP | 60 | 100 @ .15A | .89 | .79 | .65 |
| 28644 | ♦ | PN2907** | TO-92 | PNP | 40 | 100 @ .15A | *.10 | .07 | |
| 211342 | ♦ | MPS2907A | TO-92 | PNP | 60 | 100 @ .15A | .29 | .25 | .19 |
| 178520 | ♦ | PN2907A | TO-92 | PNP | 60 | 100 @ .15A | *.09 | .07 | |
| 38279 | ♦ | 2N2907A* | TO-18 | PNP | 60 | 100 @ .15A | .69 | .59 | .49 |
| 211502 | ♦ | MJ2955 | TO-3 | PNP | 60 | 20 @ 4A | 1.49 | 1.29 | 1.09 |
| 38375 | ♦ | 2N3906** | TO-92 | PNP | 40 | 100 @ .01A | *.12 | .06 | |
| 178618 | FSC | 2N3906 | TO-92 | PNP | 40 | 100 @ .01A | *.14 | .07 | |
| 214623 | ♦ | 2N4126 | TO-92 | PNP | 25 | 360 @ .20A | .25 | .12 | .099 |
| 1944951 | ♦ | PN4355 | TO-92 | PNP | 60 | 5 @ .05A | .25 | .12 | .09 |
| 38447 | ♦ | 2N4403* | TO-92 | PNP | 40 | 100 @ .15A | *.12 | .06 | |
| 210649 | ♦ | 2N5401* | TO-92 | PNP | 150 | 60 @ .01A | .29 | .25 | .15 |
| 261121 | NTE | NTE6410 | TO-92 | PNP | 30 | — | 3.95 | 3.49 | 2.95 |
| 2095411 | ♦ | EPX-002P | Transistor mounting pad for TO-92, 98, 18 | | | | | | |

*10 pcs./**100 pcs. in Transistor cabinet kit, below

Transistor Assortment Cabinet Kit

*Web Code: **CKS**

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611, pg 132) and 30 adhesive labels for drawers to identify parts in kit

10 each: 2N2222A, 2N2907A, 2N3053, 2N3055, 2N4401, 2N4403, 2N5401, 2N7000, MJE3055T, MPSA18, MPSA06, MPSA13, TIP31A, TIP32A, TIP102, TIP120

100 each: 2N3904, 2N3906, PN2222, PN2907

| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|---|------------|---------|---------|
| 82595 | 560 pcs. (20 types) NPN, PNP transistor kit | 5.1 | \$69.95 | \$59.95 |
| 130374 | Refill for 82595 (560 pcs.) | 0.4 | 54.95 | 49.95 |



* FSC = Fairchild Semiconductor | MOT = Motorola | NTE = NTE Electronics | ON = ON Semi | ST = ST Micro | ♦ Major Brands

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



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|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Semiconductors



J-FETs

Please Note: Manufacturer may vary

*Web Code: JAD

| Part No. | Product No. | Pkg. | Channel | BV _{GS} @ I _g (μA) | I _{SS} (mA) @ V _{DS} | * Order in multiples of 10 | | |
|----------|-------------|-------|---------|--|--|----------------------------|--------|--------|
| | | | | | | 1 | 10 | 100 |
| 26403 | MPF102 | TO-92 | N | -25 @ -10 | 2 @ 15 | \$1.49 | \$1.35 | \$1.19 |
| 954390 | J112 | TO-92 | N | -35 @ -50 | 5 @ 15 | * | .29 | .22 |
| 210622 | 2N3819 | TO-92 | N | -25 @ -1 | 20 @ 15 | .69 | .59 | .39 |
| 253948 | 2N5457 | TO-92 | N | -25 @ -10 | 1 @ 15 | .85 | .75 | .59 |
| 253577 | 2N5486 | TO-92 | N | -25 @ -1 | 8 @ 15 | .89 | .79 | .65 |
| 38527 | 2N5951 | TO-92 | N | -30 @ -1 | 7 @ 15 | .79 | .69 | .59 |
| 253913 | 2N5460 | TO-92 | P | 40 @ 10 | -1 @ -15 | .85 | .75 | .59 |
| 253905 | 2N5461 | TO-92 | P | 40 @ 10 | -2 @ 15 | .79 | .69 | .59 |

Hexfet Power MOSFETs

*Web Code: HDU

| Part No. | Mfr. Part No. | Pkg. | Channel | BV _{DS} | Min. On-St. Drain Source | * Order in multiples of 10 | | |
|----------|---------------|----------|---------|------------------|--------------------------|----------------------------|--------|--------|
| | | | | | | 1 | 10 | 100 |
| 1563147 | IRFZ44NPBF | TO-220AB | N | 55 | 49A | \$1.29 | \$1.09 | \$0.89 |
| 1560051 | IRF540NPBF | TO-220AB | N | 100 | 33A | 1.39 | 1.19 | .89 |
| 1559965 | IRF5305PBF | TO-220AB | P | -55 | -31A | 1.39 | 1.19 | .95 |

N-Channel & P-Channel MOSFETs

*Web Code: GCI

| Part No. | *Mfr. | Product No. | Pkg. | Channel | BV _{DS} | Min. On-St. Drain Source | * Order in multiples of 10 | | |
|----------|-------|---------------|----------|---------|------------------|--------------------------|----------------------------|--------|-------|
| | | | | | | | 1 | 10 | 100 |
| 812391 | ST | STP80NF03L-04 | TO-220 | N | 30 | 80A | \$1.49 | \$1.25 | \$.95 |
| 2001373 | ST | STP16NF06L | TO-220 | N | 60 | 16A | .69 | .59 | .45 |
| 669871 | + | IRFZ24N | TO-220AB | N | 55 | 17A | .89 | .79 | .59 |
| 669935 | + | IRFZ34N | TO-220AB | N | 55 | 26A | 1.09 | .89 | .69 |
| 669943 | + | IRLZ34N | TO-220AB | N | 55 | 30A | 1.09 | .89 | .69 |
| 669951 | + | IRFZ44N | TO-220AB | N | 55 | 49A | 1.25 | 1.05 | .85 |
| 669978 | + | IRFZ46N | TO-220AB | N | 55 | 53A | 1.29 | 1.09 | .89 |
| 669986 | + | IRFZ48N | TO-220AB | N | 55 | 64A | 1.19 | .95 | .75 |
| 256031 | + | BS170 | TO-92 | N | 60 | 0.5A (max.) | * | .17 | .09 |
| 1217519 | FSC | BS170 | TO-92 | N | 60 | 0.5A (max.) | * | .19 | .10 |
| 670098 | + | IRFP250N | TO-247AC | N | 200 | 30A | 1.75 | 1.49 | 1.25 |
| 670101 | + | IRFP260N | TO-247 | N | 200 | 50A | 2.49 | 2.19 | 1.89 |
| 670135 | + | IRFP450 | TO-247 | N | 500 | 14A | 2.25 | 2.05 | 1.75 |
| 670143 | + | IRFP460 | TO-247 | N | 500 | 20A | 2.95 | 2.75 | 2.49 |
| 2218089 | FSC | FOA19N60 | TO-3 | N | 600 | 18.5A | 1.49 | 1.25 | .95 |
| 209234 | + | IRF510 | TO-220 | N | 100 | 5.6A | .69 | .59 | .45 |
| 1559885 | INR | IRF510PBF | TO-220 | N | 100 | 5.6A | .75 | .59 | .45 |
| 209226 | + | IRF520 | TO-220 | N | 100 | 10A | .75 | .65 | .45 |
| 1559906 | INR | IRF520PBF | TO-220 | N | 100 | 10A | .79 | .69 | .49 |
| 209058 | + | IRL520 | TO-220 | N | 100 | 9.2A | .89 | .79 | .59 |
| 210500 | + | IRF530 | TO-220 | N | 100 | 14A | .79 | .69 | .59 |
| 670151 | + | IRF530N | TO-220AB | N | 100 | 17A | .79 | .69 | .59 |
| 670160 | + | IRL530N | TO-220AB | N | 100 | 17A | 1.09 | .89 | .75 |
| 210518 | + | IRF540 | TO-220 | N | 100 | 27A | 1.09 | .89 | .79 |
| 670194 | + | IRL540N | TO-220AB | N | 100 | 36A | 1.39 | 1.09 | .95 |
| 210526 | + | IRF620 | TO-220 | N | 200 | 6.0A | .49 | .39 | .29 |
| 210534 | + | IRF630 | TO-220 | N | 200 | 9.0A | .79 | .69 | .59 |
| 210542 | + | IRF640 | TO-220 | N | 200 | 18A | 1.09 | .99 | .79 |
| 670231 | + | IRF644 | TO-220AB | N | 250 | 14A | .89 | .79 | .59 |
| 210551 | + | IRF730 | TO-220 | N | 400 | 5.5A | .79 | .69 | .59 |
| 210569 | + | IRF740 | TO-220 | N | 400 | 10A | 1.19 | 1.09 | .85 |
| 2203661 | MOT | MTP10N40E | TO-220AB | N | 400 | 10A | .99 | .89 | .69 |
| 210577 | + | IRF820 | TO-220 | N | 500 | 4.0A | .69 | .49 | .39 |
| 210585 | + | IRF830 | TO-220 | N | 500 | 4.5A | .89 | .69 | .59 |
| 184719 | + | IRF840 | TO-220 | N | 500 | 8.0A | 1.19 | .99 | .79 |
| 2217852 | + | BUZ77A | TO-220 | N | 600 | 2.7A | .29 | .25 | .19 |
| 2217861 | + | BUZ78 | TO-220AB | N | 800 | 1.5A | .29 | .25 | .22 |
| 787798 | FSC | RFP12N10L | TO-220AB | N | 100 | 12A | .79 | .59 | .49 |

N-Channel & P-Channel MOSFETs (Cont.)

*Web Code: GCI

| Part No. | *Mfr. | Product No. | Pkg. | Channel | BV _{DS} | Min. On-St. Drain Source | * Order in multiples of 10 | | |
|----------|-------|-------------|----------|---------|------------------|--------------------------|----------------------------|-------|-------|
| | | | | | | | 1 | 10 | 100 |
| 279460 | + | VN2222LL | TO-92 | N | 60 | 0.15A | \$.25 | \$.15 | \$.12 |
| 618089 | + | IRF3205 | TO-220 | N | 55 | 110A | 1.75 | 1.45 | 1.25 |
| 785590 | FSC | FQP50N06 | TO-220 | N | 60 | 50A | 1.29 | 1.09 | .89 |
| 119423 | + | 2N7000 | TO-92 | N | 60 | 0.3A | * | .14 | .07 |
| 178669 | FSC | 2N7000* | TO-92 | N | 60 | 0.2A | * | .19 | .09 |
| 783594 | FSC | 2N7000-R | TO-92 | N | 60 | 0.2A | * | .19 | .09 |
| 140169 | + | 2N7002 | SOT-23 | N | 60 | 0.5A | * | .15 | .07 |
| 2210626 | INR | IRL8721PBF | TO-220AB | N | 30 | 62A | .89 | .75 | .49 |
| 256057 | + | BS250 | TO-92 | P | -45 | 0.25A (max.) | .59 | .49 | .45 |
| 1944901 | + | ZVP3306A | TO-92 | P | -60 | -0.16A | .49 | .39 | .29 |
| 670442 | + | IRF4905 | TO-220AB | P | -55 | -74A | 1.85 | 1.49 | 1.35 |
| 1559851 | INR | IRF4905PBF | TO-220AB | P | -55 | -74A | 1.95 | 1.75 | 1.49 |
| 670477 | + | IRF5210 | TO-220AB | P | -100 | -40A | 1.75 | 1.49 | 1.25 |
| 670485 | + | IRF5305 | TO-220AB | P | -55 | -31A | 1.29 | 1.19 | .89 |
| 670581 | + | IRF9234N | TO-220AB | P | -55 | -19A | 1.09 | .99 | .75 |
| 670629 | + | IRF9520 | TO-220AB | P | -100 | -6A | .79 | .65 | .49 |
| 670741 | + | IRF9530 | TO-220AB | P | -100 | -12A | .99 | .89 | .69 |
| 670637 | + | IRF9530N | TO-220AB | P | -100 | -14A | 1.09 | .89 | .79 |
| 670645 | + | IRF9540N | TO-220AB | P | -100 | -23A | .99 | .79 | .69 |
| 670653 | + | IRF9640 | TO-220AB | P | -200 | -11A | 1.29 | .99 | .89 |

*10 pcs. in Transistor cabinet kit, pg 13

† DMOS FET

Diodes

*Web Code: PAK

| Part No. | *Mfr. | Product No. | Pkg. | Description | * Order in multiples of 10 | | |
|----------|-------|--------------|----------|--------------------------|----------------------------|-------|-------|
| | | | | | 1 | 10 | 100 |
| 1559164 | INR | HFA08TB60PBF | TO-220AC | 600VBR, 8A (Ultrafast) | \$.99 | \$.85 | \$.69 |
| 2220533 | + | 1N34A | DO-7 | 65PRV (Germanium) | 1.75 | 1.49 | 1.25 |
| 35941 | + | 1N270* | DO-7 | 80PRV (Germanium) | 1.09 | .99 | .89 |
| 312101 | + | MBR1100 | DO-41 | 100PRV, 1.0A (Schottky) | .35 | .25 | .19 |
| 36038 | + | 1N4148** | DO-35 | 75PRV, 0.01A (Switching) | * | .04 | .03 |
| 151247 | + | 1N4148T | DO-35 | 75PRV, 0.01A (tape/reel) | .25 | .04 | .02 |
| 179215 | VSH | 1N4148 | DO-35 | 100PRV (Switching) | * | .05 | .03 |
| 743285 | FSC | 1N4148 | DO-35 | 75PRV, 0.01A (Switching) | * | .05 | .03 |
| 656042 | + | 1N4150 | DO-35 | 75BV, 0.4A (Ultrafast) | * | .12 | .06 |
| 743710 | ST | 1N6263 | DO-35 | 60VRRM, 50mA (Schottky) | .29 | .19 | .13 |
| 1558946 | INR | 80SQ045 | DO-204 | 40VRRM, 8A (Schottky) | 1.39 | 1.29 | 1.09 |

*10 pcs./**100 pcs. in Diode/Rectifier cabinet kit, pg 15

Zener Diodes

*Web Code: LAF

| Part No. | *Mfr. | Product No. | Pkg. | V _{znom} | Pwr Dissipation | * Order in multiples of 10 | | |
|----------|-------|-------------|-------------|-------------------|-----------------|----------------------------|-------|-------|
| | | | | | | 1 | 10 | 100 |
| 36290 | + | 1N751A | DO-35 | 5.1V | 0.5W | * | \$.10 | \$.06 |
| 36097 | + | 1N4733A* | DO-41 | 5.1V | 1W | * | .10 | .06 |
| 36118 | + | 1N4734A | DO-41 | 5.6V | 1W | * | .10 | .06 |
| 36126 | + | 1N4735A | DO-41 | 6.2V | 1W | * | .10 | .06 |
| 178837 | + | 1N4739A | DO-41 | 9.1V | 1W | * | .10 | .06 |
| 36169 | + | 1N4742A* | DO-41 | 12V | 1W | * | .10 | .06 |
| 36185 | + | 1N4744A | DO-41 | 15V | 1W | * | .10 | .06 |
| 782922 | FSC | 1N4749AT/R | DO-41 | 24V | 1W | .25 | .19 | .08 |
| 179004 | + | 1N5225B | DO-35 | 3.0V | 0.5W | * | .09 | .04 |
| 743488 | FSC | 1N5226B | DO-35 | 3.3V | 0.5W | * | .09 | .04 |
| 179039 | + | 1N5230B | DO-35 | 4.7V | 0.5W | .25 | .19 | .08 |
| 179047 | + | 1N5231B | DO-35 | 5.1V | 0.5W | * | .08 | .04 |
| 804818 | ON | 1N5352BG | Surmetic-40 | 15V | 5W | .29 | .25 | .19 |
| 804914 | ON | 1N5359BG | Surmetic-40 | 24V | 5W | .25 | .19 | .15 |

*10 pcs. in Diode/Rectifier cabinet kit, pg 15

* FSC = Fairchild Semi | INR = International Rectifier | MOT = Motorola | ST = ST Micro | VSH = Vishay Technology | + Major Brands

Small Signal Diodes

*Web Code: JDQ

| Part No. | Mfr. | Product No. | Pkg. | Description | Order in multiples of 10 | | |
|----------|------|-------------|-------|---------------|--------------------------|-------|--------|
| | | | | | 10 | 100 | 1000 |
| 36311 | ♦ | 1N914** | DO-35 | 75PRV, 0.01A | \$.05 | \$.02 | \$.015 |
| 179207 | VSH | 1N914-TR | DO-35 | 100PRV | .05 | .03 | .02 |
| 655269 | ♦ | 1N914A | DO-35 | 100VRRM, 0.2A | .05 | .03 | .02 |

**100 pcs. in Diode/Rectifier cabinet kit, below

*Transient Voltage Suppressors — Enter Web Code QBQ

Diode/Rectifier Assortment Cabinet Kit

*Web Code: CKS

420 pcs. (15 types) Diodes, Zener Diodes, Switching and Silicon Rectifiers

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611), pg 132 and 30 adhesive labels for drawers to identify parts in kit.

10 each: 1N270, 1N751A, 1N4001, 1N4007, 1N4150, 1N4733A, 1N4735A, 1N4742A, 1N5404, 1N5408, C106B1, KBP04M
100 each: 1N914, 1N4004, 1N4148



| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|-------------------------------|------------|---------|---------|
| 82587 | 420 pcs. (15 types) diode kit | 5.0 | \$44.95 | \$39.95 |
| 130366 | Refill for 82587 (420 pcs.) | 0.3 | 29.95 | 26.95 |

Triacs

*Web Code: PAE

| Part No. | Mfr. | Product No. | Pkg. | Rating | 1 | 10 | 100 |
|----------|------|---------------|----------|-------------------------------------|-------|-------|-------|
| 160098 | ♦ | HT-32 | DO-35 | 27.37 V _{BO} , 2A | \$.29 | \$.25 | \$.19 |
| 31819 | ♦ | SC146B | TO-220 | 200 V _{DRM} , 10A (2N6342) | 1.19 | 1.09 | .89 |
| 31827 | ♦ | SC146M | TO-220 | 600 V _{DRM} , 10A (2N6344) | 1.49 | 1.25 | 1.05 |
| 160207 | TEC | Q4008L4 | TO-220AB | 400 V _{DRM} , 8A | 1.39 | 1.29 | 1.19 |
| 160215 | TEC | Q6008L5 | TO-220AB | 600 V _{DRM} , 8A | 1.29 | 1.19 | 1.09 |
| 160231 | TEC | Q6015L5 | TO-220AB | 600 V _{DRM} , 15A | 2.49 | 2.25 | 1.85 |
| 2034010 | ST | BT412-600BWRG | TO-220AB | 600 V _{DRM} , 30A | 1.39 | 1.19 | .89 |
| 220521 | TEC | Q6035P5 | TO-3 | 600 V _{DRM} , 35A | 3.95 | 3.49 | 2.95 |
| 140425 | ♦ | 2N6071A | TO-225AA | 200 V _{DRM} , 4A | .49 | .45 | .35 |

SanRex® Fast-On Package Triac

| Part No. | Mfr. Part No. | Pkg. | Rating (X _{DRM} , I _{T(RMS)}) | 1 | 10 | 100 |
|----------|---------------|---------|--|--------|--------|--------|
| 658275 | TG35F60 | Fast-On | Isolated 35A, 600V | \$8.95 | \$7.95 | \$6.95 |

Rectifiers

*Web Code: LBD

| Part No. | Mfr. | Product No. | Pkg. | Rating | * Order in multiples of 10 | | |
|----------|------|-------------|----------|---------------|----------------------------|-------|-------|
| | | | | | 1 | 10 | 100 |
| 177754 | TAT | T6A05L | T6L | 50 PIV, 6A | \$.39 | \$.35 | \$.29 |
| 177762 | TAT | T6A10L | T6L | 100 PIV, 6A | .49 | .45 | .35 |
| 177818 | TAT | T6A100L | T6L | 1000 PIV, 6A | .69 | .59 | .45 |
| 35924 | ♦ | 1N1188 | DO-5 | 400 PRV, 35A | 4.25 | 3.75 | 3.35 |
| 2197610 | KST | 1N1190A | DO-5 | 600 PRV, 40A | 4.95 | 3.95 | 3.49 |
| 2197628 | KST | 1N1190RA† | DO-5 | 600 PRV, 40A | 2.95 | 2.59 | 2.29 |
| 618097 | ♦ | MBR2535CT | TO-220 | 35 VRRM, 30A | .89 | .79 | .59 |
| 2126310 | ST | BYW80-50 | TO-220AC | 50 PIV, 8A | .29 | .15 | .12 |
| 35975 | ♦ | 1N4001* | DO-41 | 50 PRV, 1A | *.12 | .05 | .03 |
| 76961 | ♦ | 1N4002 | DO-41 | 100 PRV, 1A | *.12 | .05 | .03 |
| 76970 | ♦ | 1N4003 | DO-41 | 200 PRV, 1A | *.12 | .05 | .03 |
| 35991 | ♦ | 1N4004** | DO-41 | 400 PRV, 1A | *.12 | .05 | .03 |
| 76988 | ♦ | 1N4005 | DO-41 | 600 PRV, 1A | *.12 | .05 | .03 |
| 76996 | ♦ | 1N4006 | DO-41 | 800 PRV, 1A | *.12 | .05 | .03 |
| 36011 | ♦ | 1N4007* | DO-41 | 1000 PRV, 1A | *.12 | .05 | .03 |
| 36012 | ♦ | 1N4007-R | DO-41 | 1000 PRV, 1A | *.12 | .05 | .03 |
| 1537951 | DDI | 1N4007-T | DO-41 | 1000 VRRM, 1A | *.10 | .04 | .03 |

*10 pcs./ **100 pcs. in Diode/Rectifier cabinet kit, above †Reverse polarity

Rectifiers (Continued)

*Web Code: LBD

| Part No. | Mfr. | Product No. | Pkg. | Rating | * Order in multiples of 10 | | |
|----------|------|-------------|----------|--------------|----------------------------|-------|-------|
| | | | | | 1 | 10 | 100 |
| 36249 | ♦ | 1N5401 | DO-201AD | 100 PIV, 3A | \$.12 | \$.10 | \$.08 |
| 77083 | ♦ | 1N5402 | DO-27A | 200 PRV, 3A | .12 | .10 | .08 |
| 36265 | ♦ | 1N5404* | DO-27A | 400 PRV, 3A | .12 | .10 | .08 |
| 36273 | ♦ | 1N5408* | DO-27A | 1000 PRV, 3A | .10 | .08 | .06 |
| 36274 | ♦ | 1N5408 | DO-27A | 1000 PRV, 3A | .13 | .11 | .09 |
| 177949 | ♦ | 1N5817 | DO-204AL | 20 PIV, 1A | .12 | .10 | .08 |
| 177957 | ♦ | 1N5818 | DO-204AL | 30 PIV, 1A | .14 | .12 | .10 |
| 177965 | ♦ | 1N5819 | DO-204AL | 40 PIV, 1A | .14 | .12 | .10 |
| 177973 | ♦ | 1N5820 | DO-201AD | 20 PIV, 3A | .29 | .25 | .19 |
| 177990 | ♦ | 1N5822 | DO-201AD | 40 PIV, 3A | .19 | .15 | .12 |
| 2230011 | ♦ | P600M | P600 | 1000VRRM, 6A | .29 | .26 | .22 |

*10 pcs. in Diode/Rectifier cabinet kit, left

Bridge Rectifiers

*Web Code: MBD

| Part No. | Mfr. | Product No. | Pkg. | Rating | 1 | 10 | 100 |
|----------|------|-------------|---------------|----------------|-------|-------|-------|
| 178001 | ♦ | DF005M | DF | 50 VRRM, 1A | \$.29 | \$.25 | \$.19 |
| 103000 | ♦ | DF01M | DF | 100 VRRM, 1A | .29 | .25 | .19 |
| 103042 | ♦ | DF02M | DF | 200 VRRM, 1A | .29 | .25 | .19 |
| 103034 | ♦ | DF06M | DF | 600 VRRM, 1A | .35 | .29 | .25 |
| 145429 | ♦ | KBP02M | KBP | 200 VRRM, 1.5A | .39 | .35 | .29 |
| 119562 | ♦ | KBP04M* | KBP | 400 VRRM, 1.5A | .39 | .35 | .29 |
| 103018 | ♦ | W02G | W0G | 200 VRRM, 1.5A | .39 | .35 | .29 |
| 102980 | ♦ | W04G | W0G | 400 VRRM, 1.5A | .39 | .35 | .29 |
| 178132 | ♦ | W01M | W0M | 100 VRRM, 1.5A | .35 | .29 | .22 |
| 178183 | TAT | BR805D | BR8D | 50 PIV, 2A | .45 | .39 | .35 |
| 678137 | ♦ | 2KBP04M | KBP | 400 VRRM, 2A | .29 | .25 | .19 |
| 253260 | ♦ | 2KBP06M | KBP | 600 VRRM, 2A | .39 | .29 | .25 |
| 2231195 | DDI | RS207 | KBP | 1000 PIV, 2A | .59 | .49 | .39 |
| 1541466 | DDI | RS405L | RS-4L | 600 VRRM, 4A | .69 | .59 | .49 |
| 1545416 | ♦ | KBU8B | KBU | 100 VRRM, 8A | .79 | .69 | .59 |
| 2138871 | ♦ | GBU4J | GBU | 600 VRRM, 4A | .69 | .59 | .39 |
| 2126133 | ♦ | SBU8J | SBU | 600 VRRM, 8A | .79 | .69 | .59 |
| 299874 | ♦ | GBPC1206 | GBPC (screw) | 600 VRRM, 12A | 1.95 | 1.75 | 1.49 |
| 299866 | ♦ | GBPC1206W | GBPC-W (wire) | 600 VRRM, 12A | .99 | .89 | .79 |
| 2132242 | ♦ | GBPC1208W | GBPC-W (wire) | 800 VRRM, 12A | .39 | .35 | .25 |
| 178280 | ♦ | MB254 | MB35 | 400 VRRM, 25A | 2.49 | 2.25 | 1.95 |
| 178431 | ♦ | MB358 | MB35 | 800 VRRM, 35A | 2.49 | 2.25 | 1.95 |
| 25574 | ♦ | MDA990-3 | 179-01 | 200 PIV, 30A | 2.95 | 2.75 | 2.49 |
| 25591 | ♦ | MDA990-6 | 230-B | 600 PIV, 30A | 2.95 | 2.75 | 2.49 |
| 178503 | TAT | TB3510 | TB35 | 1000 PIV, 35A | 3.25 | 2.95 | 2.75 |
| 1538494 | DDI | 6A10B | R-6 | 1000 PIV, 6A | .55 | .45 | .39 |

*10 pcs. in Diode/Rectifier cabinet kit, above left

Silicon Controlled Rectifiers (SCRs)

*Web Code: BAB

| Part No. | Mfr. | Product No. | Pkg. | Rating | * Order in multiples of 10 | | |
|----------|------|-------------|----------|-----------------------|----------------------------|--------|--------|
| | | | | | 1 | 10 | 100 |
| 14859 | ♦ | C38M | TO-65 | 600 PRV, 35A (2N3899) | \$5.95 | \$5.49 | \$4.95 |
| 14736 | ♦ | C106B1* | TO-202 | 200 PRV, 4A (2N6239)† | .79 | .69 | .59 |
| 14752 | ♦ | C122B | TO-220 | 200 PRV, 8A | 1.49 | 1.25 | .95 |
| 14761 | ♦ | C122M | TO-220 | 600 PRV, 8A | 1.25 | 1.09 | .99 |
| 160119 | ♦ | T106D1 | TO-202AB | 400 PRV, 4A | .69 | .59 | .49 |
| 119802 | ♦ | 2N5060 | TO-92 | 25 PRV, 0.8A | .45 | .35 | .25 |
| 211422 | ♦ | 2N5061 | TO-92 | 60 PRV, 0.8A | *.39 | .35 | .35 |
| 160135 | TEC | S6025L | TO-220AB | 600 VRRM, 25A | 2.19 | 1.95 | 1.59 |
| 140417 | ♦ | 2N6507 | TO-220AB | 400 PRV, 25A | 1.25 | .99 | .79 |
| 885654 | ON | 2N6509 | TO-220AB | 800 VRRM, 25A | 1.29 | 1.15 | .89 |

†Isolated *10 pcs. in Diode/Rectifier cabinet kit, above left

* DDI = Diode Inc. | KST = KEST | ON = ON Semi | ST = ST Micro | TAT = Taitron | TEC = Teccor Elec. | VSH = Vishay | ♦ Major Brands

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Heat Sinks, Heat Sink Compounds & Coolers

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



Heat Sinks

★ Web Code: JAB

- Material: black anodized aluminum
- P/N 42622 can be mounted vertically with solderable mounting tabs

| Part No. | Mfr. | Product No. | Fig. | Type | Holes | Size (L" x W" x H") | 1 | 10 | 100 |
|----------|------|---------------|------|--------------------|-------|---------------------|--------|--------|--------|
| 2077335 | AVD | 501200B00 | 1 | DIP-14/16 | 0 | 0.73 x 0.25 x 0.19 | \$.49 | \$.45 | \$.39 |
| 1115900 | AVD | 580200B00000G | 2 | DIP-14/16 | 0 | 0.84 x 0.60 x 0.41 | 1.15 | 1.05 | .95 |
| 2150934 | JVP | 205-00036-001 | 1 | DIP-14/16 | 0 | 1.18 x 0.64 x 0.65 | .49 | .39 | .29 |
| 2202052 | ADT | 630-160 | 3 | TO-3 | 4 | 1.60 x 1.32 x 1.00 | .69 | .59 | .49 |
| 2202044 | ADT | 635-180 | 4 | TO-3 | 4 | 1.80 x 1.80 x 1.25 | .69 | .59 | .49 |
| 189835 | AVD | 501303B00000G | 4 | TO-3 | 4 | 1.90 x 1.40 x 0.50 | 1.95 | 1.75 | 1.49 |
| 1114579 | AVD | 501603B00000G | 5 | TO-3 | 4 | 1.90 x 1.40 x 1.25 | 1.49 | 1.25 | 1.09 |
| 2215486 | AVD | 568203B00000G | 5 | TO-3 | 4 | 1.80 x 1.80 x 1.00 | 1.25 | .95 | .75 |
| 16513 | JVP | DUDE4 | 6 | TO-3 | 4 | 4.75 x 1.50 x 1.25 | 3.75 | 3.25 | 2.75 |
| 2145086 | AVD | 322605B00000G | 7 | TO-5 | 1 | 0.75 x 0.75 x 0.236 | .89 | .79 | .69 |
| 2202028 | JVP | 529801 | 8 | TO-218 | 1 | 1.38 x 0.50 x 1.00 | .79 | .69 | .59 |
| 326757 | JVP | 529801B02500 | 8 | TO-218 | 3 | 1.64 x 1.00 x 1.50 | 1.25 | .95 | .75 |
| 326693 | JVP | 531002B05200 | 8 | TO-220 | 2 | 1.38 x 0.50 x 1.00 | .99 | .89 | .79 |
| 326713 | JVP | 531102B02500 | 8 | TO-220 | 3 | 1.38 x 0.50 x 1.50 | .99 | .89 | .79 |
| 2231873 | AVD | 50722B00000G | 10 | TO-220 (dual) | 2 | 1.47 x 1.75 x 3.75 | .55 | .45 | .35 |
| 2155022 | JVP | BK-T220-0082 | 9 | TO-220 | 1 | 1.75 x 0.70 x 0.37 | .39 | .29 | .25 |
| 2155014 | AVD | THM6071 | 10 | TO-220 (open back) | 1 | 1.75 x 0.70 x 0.37 | .39 | .29 | .25 |
| 326765 | JVP | 531302B02500 | 8 | TO-220/202 | 3 | 2.50 x 1.38 x 0.50 | .99 | .89 | .79 |
| 696626 | AVD | 530002B02500 | 8 | TO-220 | 1 | 2.52 x 1.65 x 1.00 | 1.59 | 1.45 | 1.35 |
| 696714 | AVD | 577002B00000G | 11 | TO-220 | 1 | 0.52 x 0.25 x 0.75 | .45 | .39 | .35 |
| 158051 | AVD | 577102B0000G | 11 | TO-220 | 1 | 0.75 x 0.52 x 0.25 | .29 | .25 | .22 |
| 1115643 | AVD | 577202B00000G | 11 | TO-220 | 1 | 0.52 x 0.50 x 0.75 | .35 | .29 | .25 |
| 326596 | JVP | 507302B00000 | 11 | TO-220 | 1 | 0.75 x 0.75 x 0.38 | .29 | .25 | .17 |
| 70658 | JVP | THM6073 | 11 | TO-220 | 1 | 0.75 x 0.75 x 0.38 | .35 | .29 | .19 |
| 2202036 | AVD | THM6110B-MT | 12 | TO-220 | 1 | 1.00 x 0.50 x 0.72 | .89 | .79 | .59 |
| 129242 | JVP | THM6106 | 11 | TO-220 | 1 | 1.18 x 1.00 x 0.50 | .75 | .69 | .59 |
| 696722 | AVD | 581002B02500G | 13 | TO-220 | 1 | 0.64 x 0.64 x 1.00 | 1.95 | 1.75 | 1.49 |
| 1115133 | AVD | 574402B03200G | 14 | TO-220 | 1 | 0.75 x 0.87 x 0.40 | .39 | .29 | .19 |
| 42622 | AVD | 563002B00000 | 15 | TO-220 | 1 | 1.18 x 1.00 x 0.50 | .59 | .49 | .45 |
| 2155348 | AVD | THM6038 | 16 | TO-220 | 0 | 1.18 x 1.00 x 0.50 | .45 | .35 | .29 |



Heat Sink Compounds



★ Web Code: YBA

| Part No. | Manufacturer | Description | Vol. (oz.) | 1 | 5 |
|----------|------------------|------------------------------------|------------|---------|---------|
| 236823 | GC Electronics | 100% synthetic base stocks type 44 | 16 | \$35.95 | \$33.95 |
| 236823 | ValuePro | Silicon based grease | 0.35 | 4.95 | 4.49 |
| 167249 | Aavid Thermalloy | Silicon based grease | 2 | 8.95 | 7.95 |
| 169252 | Techspray | Silicon free | 4 | 29.95 | 28.49 |
| 259151 | NTE | White gel, thermal grease (5 pack) | 0.35 | 2.95 | 2.49 |
| 615304 | GC Electronics | Zinc oxide-filled silicon grease | 16 | 29.95 | 26.95 |
| 615312 | GC Electronics | Zinc oxide-filled silicon grease | 0.23 | 3.95 | 3.59 |
| 615321 | GC Electronics | Zinc oxide-filled silicon grease | 1 | 7.95 | 6.95 |

Peltier Thermoelectric Coolers

★ Web Code: TEC

Quite possibly the coolest thing since cubed ice! These are active cooling (or heating) modules that create a temperature difference when power is applied. One side will get cold while the other side gets hot. A fan or heat sink is still recommended for the hot side, but the cold side will be much lower than ambient or with a fan alone. Power supply required.

| Part No. | Description | Max. Cooling Power | Temperature differential (Tmax @ Qc = 0) | Size (mm) (L x W x H) | Price |
|----------|---|--------------------|--|-----------------------|---------|
| 2219591 | 11.4" wires, use a 5V @ 2A power supply* | 7.5W @ 5V | 65°C | 30 x 30 x 3.0 | \$16.95 |
| 2222088 | 13.3" wires, use a 12V @ 5A power supply* | 97W @ 15.3V | 66°C | 40 x 40 x 3.3 | 16.95 |
| 2219604 | 11" wires, use a 12V @ 5A power supply | 60W @ 12V | 66°C | 40 x 40 x 79 | 39.95 |

*Heat sink and fan not included

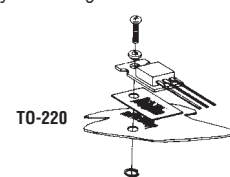
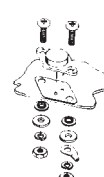
* ADT = Arndt | AVD = Aavid Thermalloy | JVP = Jameco ValuePro

Heat Sink Mounting Kits

- TO-3, DO-4 and TO-220 heat sink insulator assembly mounting kits

★ Web Code: JAB

| Part No. | Type | No. of Pieces | No. of Pack | 1 | 10 | 100 |
|----------|--------|---------------|-------------|--------|--------|--------|
| 2227292 | TO-3 | 12 | 1 | \$1.75 | \$1.49 | \$1.25 |
| 34139 | TO-3 | 120 | 10 | 7.95 | 6.95 | 5.95 |
| 2227305 | DO-4 | 6 | 1 | 1.75 | 1.49 | 1.25 |
| 2227284 | TO-220 | 5 | 1 | 1.75 | 1.49 | 1.25 |
| 34121 | TO-220 | 50 | 10 | 7.95 | 6.95 | 5.95 |



Optoisolators, Optocouplers & LED Accessories



Optoisolators

*Web Code: CAG

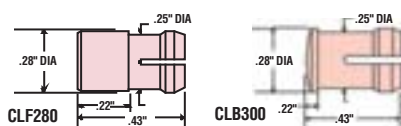
| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|---|------|------|------|
| 40985 | ♦ | 4N25 | DIP-6 | NPN phototransistor output | .25 | .22 | .19 |
| 41005 | ♦ | 4N26 | DIP-6 | NPN phototransistor output | .35 | .29 | .22 |
| 41013 | ♦ | 4N28 | DIP-6 | NPN phototransistor output | .25 | .22 | .15 |
| 41021 | ♦ | 4N32 | DIP-6 | NPN photodarlington output | .49 | .39 | .29 |
| 41030 | ♦ | 4N33 | DIP-6 | NPN photodarlington output | .35 | .29 | .19 |
| 41056 | ♦ | 4N35 | DIP-6 | NPN phototransistor output | .29 | .25 | .22 |
| 1872628 | OPT | OPB606A | DIP-4 | NPN phototransistor | 1.29 | 1.19 | 1.09 |
| 320653 | ♦ | PS2501-1 | DIP-4 | Single NPN phototransistor output .. | .45 | .35 | .25 |
| 320661 | ♦ | PS2501-2 | DIP-8 | Dual NPN phototransistor output ... | 1.19 | 1.09 | .95 |
| 160338 | ♦ | PS2501-4 | DIP-16 | Quad NPN phototransistor output ... | 1.65 | 1.39 | 1.19 |
| 320688 | ♦ | PS2502-1 | DIP-4 | Darlington photocoupler | .79 | .69 | .59 |
| 320696 | ♦ | PS2502-2 | DIP-8 | Dual NPN photodarlington output .. | 1.49 | 1.25 | .95 |
| 160362 | ♦ | PS2502-4 | DIP-16 | Quad NPN photodarlington output .. | 2.49 | 2.25 | 1.95 |
| 320725 | ♦ | PS2505-4 | DIP-16 | Quad NPN phototransistor output .. | 1.25 | 1.05 | .85 |
| 320805 | ♦ | PS2532-4 | DIP-16 | Quad hi collector to emitter voltage | 1.95 | 1.75 | 1.49 |
| 26278 | ♦ | MOC3010 | DIP-6 | Bilateral sw. non-zero crossing triac ... | .49 | .39 | .29 |
| 95020 | ♦ | MOC3011 | DIP-6 | Random phase, triac driver output ... | .49 | .39 | .29 |
| 277780 | ♦ | MOC3020 | DIP-6 | Bilateral sw. non-zero crossing triac ... | .49 | .39 | .29 |
| 95038 | ♦ | MOC3021 | DIP-6 | Random phase, triac driver output ... | .55 | .45 | .29 |
| 277819 | ♦ | MOC3023 | DIP-6 | Random phase, triac driver output ... | .49 | .39 | .29 |
| 26294 | JVP | MOC3031 | DIP-6 | Zero-crossing, triac driver output ... | .59 | .49 | .39 |
| 277835 | ♦ | MOC3041 | DIP-6 | Zero-crossing, triac driver output ... | .69 | .55 | .39 |
| 133874 | ♦ | MOC3063 | DIP-6 | Zero-crossing, triac driver output ... | .69 | .55 | .39 |
| 2006414 | LTO | LTR-5986D | SIP-3 | NPN phototransistor/detector | .29 | .12 | .10 |

*Distance and Light Kits — Enter Web Code DLK

VCC T1 $\frac{3}{4}$ Cliplite® LED Lens Mounts

Standard CLF280 and low profile CLB300 provide 180° viewing angle. Colors: red and clear.

*Web Code: KAL

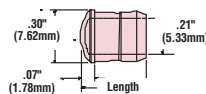


| Part No. | Mfr. Part No. | Size | Color | 1 | 10 | 100 |
|----------|---------------|------------------|-------|-------|-------|-------|
| 14277 | CLF280CTP | T1 $\frac{3}{4}$ | Clear | \$.35 | \$.29 | \$.25 |
| 124927 | CLB300CTP | T1 $\frac{3}{4}$ | Clear | .35 | .29 | .25 |

VCC Panel Lens for PCB Mounted T1 $\frac{3}{4}$ LED

T1-3/4 size low-profile panel lenses provide 180° viewing angle.

*Web Code: KAL



| Part No. | Mfr. Part No. | Size | Color | Length | 1 | 10 | 100 |
|----------|---------------|------------------|-------|--------|-------|-------|-------|
| 143132 | CMC321CTP | T1 $\frac{3}{4}$ | Clear | .33" | \$.39 | \$.35 | \$.29 |

Cliplite T1 $\frac{3}{4}$ Moisture Sealed Low Profile Lens

Low profile Fresnel round lens with seal (watertight) firmly attach to panel permitting an LED to be easily inserted, and removed from its LED lens mount. It eliminates electrostatic discharge, restricted viewing angle and assembly.



| Part No. | Mfr. Part No. | Size | 1 | 10 | 100 |
|----------|---------------|------|--------|--------|-------|
| 2244261 | CMS322CTP | 5mm | \$1.19 | \$1.09 | \$.99 |

* CLA = Clare | FSC = Fairchild | JVP = Jameco ValuePro | LTO = Lite On | OMR = Omron | OPT = Optek | SIE = Siemens | ♦ Major Brands

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Optocouplers

*Web Code: NAK

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------|---|-------|-------|-------|
| 42471 | ♦ | 6N136 | DIP-8 | Hi-speed phototransistor output | \$.49 | \$.39 | \$.35 |
| 113911 | ♦ | 6N137 | DIP-8 | Hi CMR, hi-speed logic gate output ... | .89 | .79 | .59 |
| 42489 | ♦ | 6N138 | DIP-8 | Hi-speed photodarlington output | .79 | .69 | .59 |
| 18825 | ♦ | H11AA1 | DIP-6 | AC input/phototransistor | .59 | .45 | .35 |
| 320493 | FSC | H11D1 | DIP-6 | Hi voltage phototransistor | .39 | .35 | .25 |
| 24918 | ♦ | MCT6 | DIP-8 | High density NPN phototransistor | .59 | .45 | .35 |
| 672325 | ♦ | MCT62 | DIP-8 | Dual channel NPN phototransistor | .49 | .39 | .35 |
| 2202378 | LTO | LTH-1550-01 | DIP-4 | Photointerruptor-NPN phototransistor | .39 | .35 | .29 |
| 2006385 | LTO | LTV-814H | DIP-4 | Phototransistor output, AC input | .25 | .19 | .15 |
| 2215890 | OMR | EE-SA105 | DIP-4 | Photomicrosensor (actuator) | .99 | .89 | .69 |
| 878286 | LTO | LTV-847 | DIP-16 | Quad ch. phototransistor output | .69 | .59 | .49 |
| 1583156 | CLA | PD2401* | DIP-16 | AC solid st. sw. w/ dual pwr SCR output | 5.95 | 5.49 | 4.75 |

* 4 pins

Slotted Optical Switches



*Web Code: XAP

| Part No. | Mfr. | Product No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------|-------------|--------------|---------------------------------|--------|--------|--------|
| 114091 | ♦ | H21A1 | 4-pin w/ tab | Single channel, 20mA (Ic) | \$2.75 | \$2.49 | \$2.25 |
| 320901 | ♦ | H21A3 | 4-pin w/ tab | Single channel, 20mA (Ic) | 1.75 | 1.45 | 1.29 |
| 2078282 | SIE | IRLA075 | 4-pin w/ tab | Single channel, 50mA (Ic) | .99 | .89 | .79 |

Optical Tilt Switches



*Web Code: OTS

| Part No. | Mfr. Part No. | Pkg. | Description | 1 | 10 | 100 |
|----------|------------------|-------|-----------------------------------|-------|-------|-------|
| 2126547 | RP-RUB-30-000-NB | 4-pin | Optical tilt, 30°, 5mA (Ic) | \$.39 | \$.35 | \$.25 |
| 2126539 | RP-RUB-45-000-NB | 4-pin | Optical tilt, 45°, 5mA (Ic) | .39 | .35 | .25 |

*CUB = horizontal mount PCB; RUB = vertical mount PCB

VCC Conxrite Pre-Wired Solderless LED Interconnects

Designed to replace labor-intensive hard-wiring of panel-mounted LEDs to PCB.



| Part No. | Mfr. Part No. | LED Size | Termination (leads) | Length | 1 | 10 | 100 |
|----------|---------------|------------------------|---------------------|---------|--------|--------|--------|
| 143037 | CNXCE2108 | T1 $\frac{3}{4}$ (5mm) | 2-pin connector | 8" .. | \$2.19 | \$2.09 | \$1.75 |
| 2219321 | CNXCE4112 | T1 $\frac{3}{4}$ (5mm) | 2-pin connector | 8" | 3.95 | 3.49 | 2.95 |

LITITEK T1 & T1 $\frac{3}{4}$ LED Mounting Hardware

• Color: black

*Web Code: KAL



Order in multiples of 10

| Part No. | Mfr. P/N | Description | Mounting Hole Dia. | Panel Thickness | Pricing | | |
|----------|-----------|----------------------------|--------------------|-----------------|---------|-------|-------|
| | | | | | 10 | 100 | 1000 |
| 95513 | LA27B | T1 snap-in | .185" | Up to .070" | \$.15 | \$.13 | \$.08 |
| 23077 | PT18H013* | T1 $\frac{3}{4}$ ring/clip | .257" | Up to .125" | .15 | .14 | .12 |

*Manufacturer: Jameco ValuePro

JAMECO ValuePro 1" x 1.56" LED Backlight

- IC compatible • D.C. forward current: 30mA
- Peak wavelength: 567nm @ 20mA
- View angle: 52°
- Forward voltage: (typical) 4.2V @ 20mA; (max) 6.0V @ 20mA
- Luminous intensity: (min) 14.9mcd @ 20mA; (typical) 24.8mcd @ 20mA






| Part No. | Cross Ref. No. | LED Material | Emitting Color | Lens Color | 1 | 10 | 100 |
|----------|----------------|--------------|----------------|------------|-------|-------|-------|
| 302535 | LT1F24-A2-S8 | GaP | Green | Clear | \$.99 | \$.89 | \$.79 |



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Standard-Output LEDs

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|  | SIEMENS |  |  |  |  |
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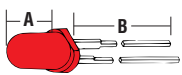


Fig. 1



Fig. 2

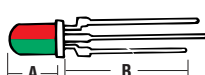


Fig. 3



Fig. 4

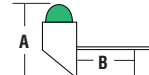


Fig. 5

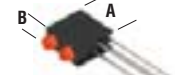


Fig. 6

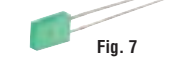


Fig. 7



Fig. 8

Standard-Output LEDs

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MARKED IN PINK

* Web Code: FAF

* Order in multiples of 10

| Part No. | Product No. | Mfr. | Fig. | Emitting Color | Lens/Feature Description | LED Size | Diameter inch/mm | Dimensions | | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing | | | |
|----------|----------------|------|------|----------------|---|----------|------------------|------------|-------|--------------|------------|-------------|---------------|----------------|---------|------|------|------|
| | | | | | | | | A* | B* | | | | | | 1 | 10 | 100 | 1000 |
| 697565 | LTL-4211N | LTO | 1 | Red | Red diffused tinted | T1 | 0.119/3 | 0.17 | 1.00 | 0.10 | 2.1 | 4.4 | 697 | 60 | * .08 | .06 | .04 | |
| 94529 | LH2040 | JVP | 1 | Red | Red diffused (XC209RB) | T1 | 0.119/3 | 0.18 | 1.04 | 0.07 | 2.3 | 4.5 | 697 | 36 | * .12 | .10 | .08 | |
| 114673 | LH2043 | JVP | 1 | Red | Water clear | T1 | 0.118/3 | 0.165 | 1.024 | 0.10 | 2.6 | 8.0 | 697 | 30 | * .12 | .10 | .08 | |
| 202471 | MVL-301HR** | UNI | 1 | Red | Red diffused | T1 | 0.119/3 | 0.14 | 1.12 | 0.10 | 2.0 | 9.0 | 640 | 40 | * .10 | .08 | .06 | |
| 2186620 | LTL-1CHE-032 | LTO | 1 | Hi-eff Red | Red diffused | T1 | 0.118/3 | 0.205 | 0.985 | 0.10 | 2.0 | 12.6 | 635 | 60 | .25 | .07 | .055 | .04 |
| 152785 | LT0341R-41 | JVP | 1 | Red | Red diffused | T1 | 0.119/3 | 0.20 | 0.89 | 0.10 | 2.1 | 15.5 | 635 | 56 | * .12 | .10 | .08 | |
| 2186435 | LTL-16KEE | LTO | 2 | Red | Red hi-eff transparent | T1 | 0.119/3 | 0.16 | 0.95 | 0.10 | 2.0 | 19 | 635 | 45 | .25 | .04 | .03 | .02 |
| 333851 | UT6371-41-M1 | JVP | 1 | Red | Red diffused | T1 | 0.119/3 | 0.17 | 0.98 | 0.10 | 1.8 | 65 | 660 | 60 | * .12 | .10 | .08 | |
| 2197732 | LSR2643-1 | JVP | 1 | Red | Water clear | T1 | 0.119/3 | 0.13 | 1.04 | 0.10 | 2.1 | 120 | 660 | 40 | * .15 | .12 | .10 | |
| 206498 | LHR2041 | JVP | 1 | Red | Red transparent | T1 | 0.119/3 | 0.17 | 0.69 | 0.08 | 2.4 | 350 | 660 | 30 | * .15 | .12 | .10 | |
| 697590 | LTL-4221N | LTO | 1 | Hi-eff Red | Red diffused | T1 | 0.119/3 | 0.175 | 1.00 | 0.10 | 2.0 | 8.7 | 635 | 60 | * .07 | .06 | .045 | |
| 2006713 | LTL-161CE | LTO | 1 | Hi-eff Red | Red diffused, flanged | T1 | 0.119/3 | 0.21 | 1.07 | 0.10 | 2.0 | 12.6 | 621 | 60 | .25 | .08 | .06 | .04 |
| 2186646 | LTL-1CHKFKNN | LTO | 1 | Orange | Water clear | T1 | 0.118/3 | 0.205 | 0.985 | 0.10 | 2.05 | 320 | 611 | 45 | .25 | .07 | .055 | .045 |
| 2081932 | BVL-300E5D | JVP | 2 | OrangeRed | Red diffused | T1 | 0.119/3 | 0.17 | 1.00 | 0.10 | 2.1 | 18 | 632 | 45 | .25 | .04 | .03 | .02 |
| 94553 | LHG2062 | JVP | 1 | Red/Green | White diffused bi-color/bi-state ¹ | T1 | 0.119/3 | 0.18 | 1.06 | 0.08 | 2.6 | 3/1.2 | 697/565 | 36 | * .19 | .15 | .12 | |
| 2224163 | WP115WEGW | KGB | 3 | Red/Green | White diffused bi-color/tri-state | T1 | 0.119/3 | 0.14 | 0.93 | 0.10 | 2.2 | 40/40 | 617/568 | 60 | .35 | .29 | .25 | .19 |
| 156946 | LT0362-25-D61 | JVP | 3 | Red/Green | White diffused bi-color/tri-state | T1 | 0.119/3 | 0.16 | 0.87 | 0.08 | 2.1 | 2.7/13.3 | 700/567 | 50 | .39 | .35 | .29 | .25 |
| 697688 | LTL-4251N | LTO | 2 | Yellow | Yellow diffused | T1 | 0.119/3 | 0.175 | 1.00 | 0.10 | 2.1 | 5.6 | 585 | 60 | * .15 | .12 | .10 | |
| 2133413 | LUY34D-10.5 | SLD | 1 | Yellow | Yellow diffused | T1 | 0.118/3 | 0.157 | 1.06 | 0.10 | 1.7 | 6.5 | 585 | 60 | .25 | .049 | .035 | .029 |
| 2155241 | BVL-360YID | ADT | 2 | Yellow | Yellow diffused | T1 | 0.119/3 | 0.13 | 1.00 | 0.10 | 2.2 | 14 | 590 | 55 | * .12 | .10 | .08 | |
| 2194152 | LTL-4231NLDLR1 | LTO | 1 | Green | Green diffused | T1 | 0.114/2.9 | 0.135 | 1.42 | 0.10 | 2.1 | 12.6 | 565 | 60 | .25 | .04 | .035 | .02 |
| 2125464 | VX4SUGY91M | SLD | 4 | Yellow/Green | White diff. bi-color, quad-level | T1 | 0.119/3 | 0.47 | 0.20 | 0.10 | 2.1/2.2 | 24/6 | 590/565 | 130 | .25 | .17 | .12 | .10 |
| 2006705 | LTL-1CHYE* | LTO | 1 | Yellow | Water clear, flanged | T1 | 0.119/3 | 0.21 | 1.07 | 0.10 | 2.1 | 40 | 585 | 45 | .25 | .07 | .05 | .035 |
| 206480 | LVY2041 | JVP | 1 | Yellow | Yellow transparent | T1 | 0.119/3 | 0.17 | 0.69 | 0.08 | 2.3 | 450 | 595 | 30 | * .12 | .10 | .08 | |
| 2194144 | LTL-4231NLDLLC | LTO | 1 | Green | Green Diffused | T1 | 0.118/3 | 0.137 | 1.52 | 0.10 | 1.9 | 1.1 | 565 | 60 | .25 | .04 | .03 | .02 |
| 2186363 | LTL-14CDJ | LTO | 1 | Yellow/Grn | Green/Yellow diffused bi-color | T1 | 0.118/3 | 0.135 | 1.04 | 0.10 | 2.1 | 80 | 585/565 | 80 | .25 | .19 | .15 | .12 |
| 253631 | HLMP-1503 | FSC | 1 | Green | Green diffused | T1 | 0.119/3 | 0.19 | 1.00 | 0.10 | 2.1 | 5.0 | 565 | 60 | * .15 | .12 | .09 | |
| 333201 | LG12340 | JVP | 1 | Green | Green diffused | T1 | 0.119/3 | 0.13 | 0.98 | 0.10 | 1.7 | 9.6 | 565 | 112 | * .12 | .10 | .08 | |
| 697629 | LTL-4231 | LTO | 1 | Green | Green diffused | T1 | 0.119/3 | 0.20 | 1.00 | 0.10 | 2.1 | 12.6 | 569 | 40 | * .09 | .07 | .05 | |
| 2194152 | LTL-4231NLDLR1 | LTO | 1 | Green | Green Diffused | T1 | 0.118/3 | 0.135 | 1.42 | 0.10 | 2.1 | 12.6 | 565 | 60 | .25 | .04 | .035 | .02 |
| 211086 | LTL-4231N-022 | LTO | 2 | Green | Green diffused | T1 | 0.119/3 | 0.13 | 1.10 | 0.10 | 2.1 | 12.6 | 565 | 60 | .25 | .04 | .03 | .02 |
| 697637 | LTL-4231N | LTO | 2 | Green | Green diffused | T1 | 0.119/3 | 0.175 | 1.00 | 0.10 | 2.1 | 12.6 | 565 | 60 | * .09 | .07 | .055 | |
| 34606 | LSG2040* | JVP | 1 | Green | Green diffused (XC209G) | T1 | 0.119/3 | 0.13 | 1.05 | 0.08 | 2.2 | 15 | 560 | 50 | * .15 | .12 | .10 | |
| 2155233 | BVL-360G1D | ADT | 1 | Green | Green Diffused | T1 | 0.118/3 | 0.138 | 1.00 | 0.10 | 2.3 | 18 | 573 | 55 | .25 | .049 | .035 | .025 |
| 156930 | LT0321-41-HE | JVP | 1 | Green | Green diffused | T1 | 0.119/3 | 0.16 | 0.88 | 0.10 | 2.1 | 32 | 567 | 56 | * .15 | .12 | .10 | |
| 790111 | LTL-16KGE | LTO | 1 | Green | Green diffused | T1 | 0.119/3 | 0.20 | 0.94 | 0.10 | 2.1 | 40 | 565 | 45 | .25 | .05 | .04 | .03 |
| 175679 | LVG2041 | JVP | 1 | Green | Green transparent | T1 | 0.119/3 | 0.17 | 0.69 | 0.08 | 2.2 | 129 | 565 | 30 | * .15 | .12 | .10 | |
| 114681 | LVG2043* | JVP | 1 | Green | Water clear (BG209) | T1 | 0.119/3 | 0.14 | 0.98 | 0.07 | 2.2 | 129 | 565 | 30 | * .12 | .10 | .08 | |
| 1995935 | LTL-14CHJ | LTO | 2 | Gn/Red Org | White diffused bi-color | T1 | 0.119/3 | 0.18 | 1.06 | 0.08 | 2.1 | 4.8 | 630 | 200 | .29 | .25 | .19 | .15 |
| 137411 | LVB2040 | JVP | 1 | Blue | Blue diffused | T1 | 0.119/3 | 0.21 | 0.98 | 0.10 | 3.5 | 10 | 430 | 50 | .89 | .79 | .69 | .65 |
| 333383 | UT6381-41-URC3 | JVP | 2 | Blue | Blue diffused | T1 | 0.119/3 | 0.17 | 0.98 | 0.10 | 3.8 | 50 | 466 | 54 | .59 | .49 | .39 | .29 |
| 2193977 | MRB52D | ADT | 1 | Red | Red Diffused | T1 ¾ | 0.197/5 | 0.253 | 1.13 | 0.10 | 2.0 | 1.0 | 660 | 60 | .25 | .07 | .055 | .039 |
| 34690 | LFH3360* | JVP | 1 | Red | Red diff. blinking (XC5410) ² | T1 ¾ | 0.197/5 | 0.30 | 0.94 | 0.07 | 3-12 | 2.8 | 697 | — | .39 | .35 | .29 | .25 |
| 94511 | LH3330 | JVP | 1 | Red | Red diffused (XC556RB) | T1 ¾ | 0.197/5 | 0.31 | 0.81 | 0.08 | 2.3 | 3.0 | 697 | 36 | * .15 | .12 | .10 | |
| 2125309 | LS5469FH | SIE | 1 | Red | Red diffused | T1 ¾ | 0.2/5.1 | 0.31 | 1.10 | 0.10 | 1.8 | 5.0 | 635 | 50 | .25 | .07 | .05 | .03 |
| 253753 | HLMP-3301 | FSC | 1 | Red | Red diffused | T1 ¾ | 0.197/5 | 0.36 | 1.00 | 0.10 | 2.4 | 5.4 | 635 | 60 | .29 | .25 | .22 | .17 |
| 104248 | LA93B/H-1* | JVP | 5 | Red | Red diffused (XC410R) | T1 ¾ | 0.197/5 | 0.35 | 0.89 | 0.08 | 2.3 | 6.5 | 697 | 46 | .25 | .21 | .19 | .15 |
| 333973 | UT1871-81-M1 | JVP | 1 | Red | Red diffused | T1 ¾ | 0.197/5 | 0.34 | 0.98 | 0.10 | 1.7 | 75 | 660 | 25 | * .12 | .10 | .08 | |

*10 pcs./**100 pcs. in LEDs & LED Mounting Hardware cabinet kit, pg 29

¹ Reverse polarity to change color

² Volt. shown is operating volt. range; no current limiting resistor required

* ADT = Arndt Electronics | FSC = Fairchild Semi | JVP = Jameco ValuePro | KGB = Kingbright | LTO = Lite On | SIE = Siemens | SLD = Sunled Corp. | UNI = Unity Opto

Standard-Output LEDs



Standard-Output LEDs (Continued)

See pages 17 & 29 for LED Mounting Hardware

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★ Web Code: FAF

* Order in multiples of 10

| Part No. | Product No. | Mfr. | Fig. | Emitting Color | Lens/Feature Description | LED Size | Diameter inch/mm | Dimensions | | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing | | | |
|----------|----------------|------|------|----------------|---|----------|------------------|------------|-------|--------------|------------|-------------|---------------|----------------|---------|--------|--------|--------|
| | | | | | | | | A" | B" | | | | | | 1 | 10 | 100 | 1000 |
| 2186558 | MSB557DA-OHM | LTO | 1 | Red | Red diffused (blinking) | T1 ¼ | 0.197/5 | 0.30 | 0.94 | 0.10 | 3.0 | 80 | 660 | 30 | * | \$.07 | \$.05 | \$.03 |
| 333489 | LUR3330/HO/A | JVP | 1 | Red | Red diffused | T1 ¼ | 0.197/5 | 0.34 | 0.98 | 0.10 | 1.5 | 380 | 660 | 40 | * | .19 | .15 | .12 |
| 302033 | LT1814-81 | JVP | 1 | Red | Red clear | T1 ¼ | 0.197/5 | 0.34 | 0.88 | 0.10 | 2.1 | 10 | 650 | 10 | * | .12 | .10 | .08 |
| 2155399 | LTL-4268-H4 | LTO | 2 | Red | Water clear | T1 ¼ | 0.197/5 | 0.34 | 1.00 | 0.10 | 1.8 | 270 | 638 | 16 | .25 | .12 | .10 | .08 |
| 697602 | LTL-4223 | LTO | 1 | Hi-eff Red | Red diffused | T1 ¼ | 0.197/5 | 0.34 | 1.00 | 0.10 | 2.0 | 19 | 635 | 36 | * | .05 | .04 | .03 |
| 697522 | LTL-307E-002 | LTO | 2 | Hi-eff Red | Red diffused | T1 ¼ | 0.197/5 | 0.34 | 0.90 | 0.10 | 2.0 | 19 | 635 | 50 | * | .12 | .10 | .08 |
| 2006730 | LTL-307E-3** | LTO | 1 | Hi-eff Red | Red diffused, flanged | T1 ¼ | 0.197/5 | 0.34 | 0.87 | 0.10 | 2.0 | 12.6 | 623 | 40 | .25 | .09 | .06 | .04 |
| 790081 | LTL-10223W | LTO | 2 | Hi-eff Red | Red diffused, flangeless | T1 ¼ | 0.187/4.75 | 0.283 | 1.00 | 0.10 | 2.0 | 60 | 623 | 60 | * | .12 | .09 | .07 |
| 697611 | LTL-4224 | LTO | 1 | Hi-eff Red | Red transparent | T1 ¼ | 0.197/5 | 0.34 | 1.00 | 0.10 | 2.0 | 90 | 635 | 16 | .25 | .10 | .08 | .06 |
| 790225 | LTL-307P | LTO | 2 | Bright Red | Red diffused | T1 ¼ | 0.197/5 | 0.34 | 0.90 | 0.10 | 2.1 | 5.6 | 657 | 50 | * | .09 | .07 | .05 |
| 1109260 | TLUV5300 | VSH | 3 | Red/Green | White diffused bi-color/bi-state ¹ | T1 ¼ | 0.197/5 | 0.30 | 1.00 | 0.10 | 3.0 | 2.5 | 630/565 | 60 | .25 | .12 | .10 | .08 |
| 334182 | LHG3362 | JVP | 1 | Red/Green | White diff. bi-color/solid state ¹ | T1 ¼ | 0.197/5 | 0.34 | 0.98 | 0.10 | 1.7 | 1.2/4.5 | 697/565 | 30 | * | .19 | .17 | .15 |
| 34673 | LHG3392* | JVP | 3 | Red/Green | White diff. bi-color/tri-state | T1 ¼ | 0.197/5 | 0.30 | 1.02 | 0.03 | 2.3 | 3 & 12 | 697/565 | 70 | * | .19 | .15 | .12 |
| 2186460 | LTL-30WJNF | LTO | 2 | Red/Green | White diffused, bi-color | T1 ¼ | 0.197/5 | 0.34 | 0.83 | 0.10 | 1.8/2.1 | 60/29 | 660/565 | 60 | .25 | .12 | .10 | .08 |
| 697557 | LTL-30EFJ | LTO | 3 | Bright Red/Gm | White diffused, bi-color | T1 ¼ | 0.197/5 | 0.41 | 0.945 | 0.10 | 2.1/2.1 | 5.6/19 | 697/565 | 30 | .25 | .08 | .06 | .04 |
| 1995960 | LTL-30EHJ-002 | LTO | 3 | Red/Orange/Gm | Diffused (3 lead) | T1 ¼ | 0.197/5 | 0.37 | 0.790 | 0.10 | 2.0/2.1 | 60/100 | 635/565 | 30 | .25 | .15 | .12 | .09 |
| 34711 | LEG3362* | JVP | 1 | Orange/Gm | White diffused bi-color/bi-state ¹ | T1 ¼ | 0.197/5 | 0.30 | 1.01 | 0.09 | 1.7 | 4.5 | 635/565 | 30 | * | .19 | .15 | .12 |
| 152857 | LT1841R-81-R | JVP | 1 | Orange Red | Red diffused | T1 ¼ | 0.197/5 | 0.34 | 0.89 | 0.10 | 2.1 | 23.1 | 630 | 45 | .25 | .06 | .05 | .04 |
| 210825 | BVU-5M1QN1 | BVO | 2 | Orange Red | Red diffused | T1 ¼ | 0.197/5 | 0.30 | 1.00 | 0.10 | 2.1 | 465 | 615 | 30 | .25 | .06 | .05 | .04 |
| 107393 | LE3330 | JVP | 1 | Orange Red | Orange diffused (XC556A) | T1 ¼ | 0.197/5 | 0.30 | 1.02 | 0.08 | 2.3 | 24 | 635 | 36 | * | .12 | .10 | .08 |
| 2155268 | BVL-501EID | JVP | 2 | Orange Red | Orange diffused | T1 ¼ | 0.197/5 | 0.30 | 1.00 | 0.10 | 2.1 | 50 | 622 | 25 | .25 | .09 | .06 | .04 |
| 2186443 | 4TL-307A | LTO | 1 | Amber | Amber diffused | T1 ¼ | 0.197/5 | 0.34 | 0.906 | 0.10 | 2.1 | 29 | 610 | 50 | .25 | .09 | .069 | .055 |
| 2125288 | LY5469FH | SIE | 1 | Yellow | Yellow diffused | T1 ¼ | 0.20/5.1 | 0.31 | 1.10 | 0.10 | 2.0 | 5 | 586 | 50 | .25 | .06 | .04 | .025 |
| 34825 | LY3330 | JVP | 1 | Yellow | Yellow diffused (XC556Y) | T1 ¼ | 0.197/5 | 0.30 | 0.82 | 0.07 | 2.3 | 12 | 585 | 36 | * | .15 | .12 | .10 |
| 1995927 | LTL-10253 | LTO | 1 | Yellow | Yellow diffused, flanged | T1 ¼ | 0.187/4.75 | 0.283 | 1.00 | 0.10 | 2.1 | 12.6 | 585 | 60 | * | .12 | .10 | .08 |
| 697696 | LTL-4253 | LTO | 1 | Yellow | Yellow diffused | T1 ¼ | 0.197/5 | 0.34 | 1.00 | 0.10 | 2.1 | 19 | 585 | 36 | * | .08 | .06 | .05 |
| 697549 | LTL-307Y | LTO | 2 | Yellow | Yellow diffused | T1 ¼ | 0.197/5 | 0.34 | 0.90 | 0.10 | 2.1 | 29 | 585 | 50 | * | .09 | .055 | .045 |
| 2193985 | MYB51D | JVP | 1 | Yellow | Yellow diffused | T1 ¼ | 0.197/5 | 0.34 | 0.98 | 0.10 | 3.0 | 55 | 585 | 30 | .25 | .05 | .04 | .03 |
| 334108 | UT1831-81-S | JVP | 1 | Yellow | Yellow diffused | T1 ¼ | 0.197/5 | 0.34 | 0.98 | 0.10 | 2.1 | 90 | 590 | 10 | * | .12 | .10 | .08 |
| 693901 | MCDL-5013GD | MCD | 1 | Green | Green diffused | T1 ¼ | 0.197/5 | 0.34 | 1.04 | 0.10 | 2.1 | 12.5 | 565 | 60 | * | .10 | .08 | .06 |
| 697653 | LTL-4233 | LTO | 1 | Green | Green diffused | T1 ¼ | 0.197/5 | 0.36 | 1.00 | 0.10 | 2.1 | 19 | 565 | 36 | * | .12 | .10 | .08 |
| 790217 | LTL-307GE | LTO | 1 | Green | Green transparent | T1 ¼ | 0.197/5 | 0.36 | 0.88 | 0.10 | 2.1 | 19 | 565 | 50 | .25 | .05 | .04 | .03 |
| 697531 | LTL-307G | LTO | 1 | Green | Green diffused | T1 ¼ | 0.197/5 | 0.36 | 0.88 | 0.10 | 2.1 | 19 | 565 | 50 | * | .12 | .10 | .08 |
| 334086 | LG13740 | JVP | 1 | Green | Green diffused | T1 ¼ | 0.197/5 | 0.34 | 0.98 | 0.10 | 1.7 | 20 | 565 | 68 | * | .10 | .08 | .06 |
| 34761 | LG3330* | JVP | 1 | Green | Green diffused (XC556G) | T1 ¼ | 0.197/5 | 0.31 | 0.79 | 0.09 | 2.6 | 30 | 565 | 36 | * | .15 | .12 | .10 |
| 104256 | LA93B/G-1* | JVP | 5 | Green | Green diffused (XC410G) | T1 ¼ | 0.197/5 | 0.35 | 0.89 | 0.08 | 2.6 | 30 | 565 | 46 | * | .17 | .14 | .10 |
| 2230547 | XLUG53C | SLD | 1 | Green | Green transparent | T1 ¼ | 0.197/5 | 0.35 | 1.00 | 0.10 | 2.0 | 79 | 565 | 20 | * | .15 | .12 | .09 |
| 2193897 | HBS-133 | JVP | 1 | Green | Green diffused | T1 ¼ | 0.197/5 | 0.34 | 0.96 | 0.10 | 2.1 | 80 | 570 | 30 | .25 | .06 | .049 | .039 |
| 333227 | LG13530 | JVP | 2 | Hi-eff green | Green diffused (flangeless) | T1 ¼ | 0.197/5 | 0.34 | 0.98 | 0.10 | 1.7 | 25 | 565 | 36 | * | .10 | .08 | .06 |
| 2133641 | LT641G1HR-H206 | JVP | 6 | Green/Red | Green/Red diffused (dual) | T1 ¼ | 0.197/5 | 0.49 | 0.24 | 0.10 | 2.1 | 28/40 | 567/635 | 38 | .25 | .17 | .12 | .10 |
| 138691 | LVB3330 | JVP | 1 | Blue | Blue diffused | T1 ¼ | 0.197/5 | 0.34 | 0.98 | 0.10 | 4.8 | 10 | 430 | 36 | .99 | .89 | .75 | .69 |
| 2152112 | MCDL-10003SED | JVP | 2 | Hi-eff red | Red diffused | 10mm | 0.394/10 | 0.43 | 1.00 | 0.1 | 2.0 | 35 | 635 | 60 | .59 | .55 | .49 | .39 |
| 138683 | LHR3630 | JVP | 2 | Red | Red diffused | 10mm | 0.394/10 | 0.40 | 1.04 | 0.10 | 2.0 | 200 | 660 | 32 | .25 | .22 | .17 | .12 |
| 2152139 | MCDL-10003ED-E | JVP | 2 | Orange | Orange diffused | 10mm | 0.394/10 | 0.43 | 1.00 | 0.1 | 2.0 | 25 | 610 | 60 | .45 | .39 | .35 | .29 |
| 2152121 | MCDL-10003SYD | JVP | 2 | Yellow | Yellow diffused | 10mm | 0.394/10 | 0.43 | 1.00 | 0.1 | 2.0 | 35 | 590 | 60 | .59 | .55 | .49 | .39 |
| 98984 | LVG3630 | JVP | 1 | Green | Green diffused | 10mm | 0.394/10 | 0.40 | 1.07 | 0.08 | 2.3 | 40 | 565 | 32 | .25 | .22 | .17 | .12 |
| 2152104 | MCDL-10003-SGD | JVP | 2 | Green | Green diffused | 10mm | 0.394/10 | 0.43 | 1.00 | 0.1 | 2.2 | 50 | 570 | 60 | .59 | .55 | .49 | .39 |
| 2152147 | MCDL-10003SBD | JVP | 2 | Blue | Blue diffused | 10mm | 0.394/10 | 0.43 | 1.00 | 0.1 | 4.2 | 20 | 430 | 60 | 1.49 | 1.35 | 1.19 | .99 |
| 104889 | LEG5292 | JVP | 7 | Orange/Gm | White diff. bi-color rectangular | 2x5mm | 0.078/5 | 0.27 | 1.02 | 0.08 | 2.3 | 6/6 | 635/565 | 116 | .25 | .15 | .12 | .10 |
| 790356 | LTL-433G | LTO | 7 | Green | Green diffused, rectangular | 2x5mm | 0.078/5 | 0.30 | 1.00 | 0.10 | 2.1 | 3.7 | 565 | 140 | .25 | .10 | .08 | .06 |
| 2133464 | SSL-3353SYD | LUM | 8 | Yellow | Yellow diffused, square | 3x3mm | 0.119/3 | 0.18 | 1.00 | 0.10 | 2.5 | 100 | 590 | 80 | .25 | .04 | .03 | .02 |
| 2230601 | XSFRS23MBBA | JVP | 7 | Blue | White triple diffused | 5x5mm | 0.197/5 | 0.28 | 0.198 | 0.10 | 3.3 | 258 | — | 110 | .79 | .69 | .59 | .45 |

*10 pcs./**100 pcs. in LEDs & LED mounting hardware cabinet kit, pg 29 ¹ Reverse polarity to change color

* AVT = Avago | BVO = BV Optotech | JVP = ValuePro | LTO = Lite On | LUM = Lumex | MCD = MCD Elec. | SIE = Siemens | SLD = Sunled Corp. | VSH = Vishay

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

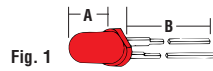
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|---------------------|--------------|-------------|
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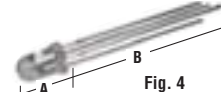
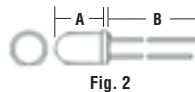
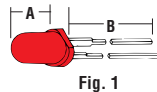
*Web Code: MBW

* Order in multiples of 10

| Part No. | Product No. | *Mfr. | Fig. | Emitting Color | Lens/Feature Description | LED Size | Diameter inch/mm | Dimensions | | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing | | | |
|----------|-----------------|-------|------|------------------|--------------------------|----------|------------------|------------|------|--------------|------------|-------------|---------------|----------------|---------|--------|--------|--------|
| | | | | | | | | A" | B" | | | | | | 1 | 10 | 100 | 1000 |
| 156954 | UT0373-41 | JVP | 1 | Red Super Bright | Water clear | T1 | 0.119/3 | 0.16 | 0.94 | 0.10 | 1.8 | 100 | 660 | 36 | * | \$.19 | \$.15 | \$.12 |
| 333340 | LHE2643 | JVP | 1 | Orange | Water clear | T1 | 0.119/3 | 0.13 | 0.98 | 0.10 | 1.7 | 700 | 620 | 40 | * | .19 | .17 | .14 |
| 2133632 | LT033N-41-UR91 | ADT | 1 | Yellow | Water clear | T1 | 0.119/3 | 0.20 | 0.89 | 0.10 | 1.9 | 700 | 589 | 35 | .25 | .05 | .04 | .03 |
| 333307 | LUY2643-1 | JVP | 1 | Yellow | Water clear | T1 | 0.197/5 | 0.13 | 0.98 | 0.10 | 1.7 | 900 | 595 | 40 | .25 | .22 | .19 | .17 |
| 98968 | QLMP-LB98 | AVT | 2 | Blue | Blue clear (oval) | T1 | 0.119/3 | 0.28 | 0.94 | 0.10 | 3.2 | 550 | 470 | 70 | .39 | .35 | .29 | .19 |
| 334749 | UT63B3-41-UR33 | JVP | 1 | Blue | Water clear | T1 | 0.119/3 | 0.17 | 0.94 | 0.10 | 3.2 | 900 | 470 | 45 | .59 | .55 | .49 | .39 |
| 334764 | LWK2043 | JVP | 1 | White | Water clear | T1 | 0.119/3 | 0.17 | 0.98 | 0.10 | 3.5 | 900 | — | 30 | .99 | .89 | .75 | .65 |
| 2193900 | LTL-307UR-002 | LTO | 2 | Red | Red diffused | T1 ¾ | 0.197/5 | 0.29 | 0.83 | 0.10 | 1.8 | 470 | 660 | 50 | * | .15 | .12 | .10 |
| 333497 | LSR13233 | JVP | 1 | Red | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.98 | 0.10 | 1.5 | 720 | 660 | 18 | * | .19 | .15 | .12 |
| 206519 | LHR3331 | JVP | 1 | Red | Red transparent | T1 ¾ | 0.197/5 | 0.30 | 0.98 | 0.10 | 1.5 | 900 | 550 | 20 | * | .19 | .15 | .12 |
| 152864 | BUV501SR4 | JVP | 1 | Red Super Bright | Water clear | T1 ¾ | 0.197/5 | 0.34 | 0.89 | 0.10 | 1.9 | 600 | 660 | 20 | .25 | .05 | .04 | .03 |
| 351089 | MCDL-517URD-F | JVP | 1 | Super Red | Red diffused blinking | T1 ¾ | 0.197/5 | 0.30 | 1.00 | 0.10 | 1.8 | 500 | 660 | 120 | .69 | .59 | .49 | .35 |
| 153154 | LVG3333 | JVP | 1 | Green | Water clear (HLMP-8509) | T1 ¾ | 0.197/5 | 0.30 | 1.02 | 0.10 | 2.1 | 500 | 565 | 20 | * | .10 | .08 | .06 |
| 156962 | LT1823-81-HE | JVP | 2 | Green | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.00 | 0.10 | 2.1 | 500 | 567 | 19 | .25 | .12 | .10 | .07 |
| 333551 | LVG13233 | JVP | 1 | Green | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.98 | 0.10 | 1.7 | 600 | 565 | 18 | * | .17 | .14 | .10 |
| 2211080 | KTL050BLDI | ADT | 2 | Blue | Blue diffused | T1 ¾ | 0.197/5 | 0.30 | 1.00 | 0.10 | 3.5 | 350 | 470 | 120 | .49 | .45 | .35 | .25 |
| 134333 | 383UBC/H2 | JVP | 1 | Blue | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.00 | 0.10 | 3.8 | 630 | 428 | 30 | .99 | .89 | .79 | .65 |
| 2239023 | LED-5MMBLUE | JVP | 1 | Blue | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.98 | 0.10 | 3.5 | 900 | 470 | 30 | .79 | .69 | .65 | .55 |
| 2129625 | LDUV3333 | JVP | 1 | Purple | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.00 | 0.10 | 3.0 | 450 | 400 | 20 | 1.25 | 1.15 | .99 | .85 |
| 2152155 | MCDL-833URD-U12 | JVP | 2 | Super Red | Red diffused | 10mm | 0.394/10 | 0.43 | 1.00 | 0.10 | 1.8 | 600 | 660 | 60 | .59 | .55 | .45 | .35 |
| 2209115 | MCD-10003UBD | JVP | 2 | Blue | Diffused | 10mm | 0.394/10 | 0.47 | 1.00 | 0.10 | 3.5 | 600 | 470 | 60 | .99 | .89 | .79 | .69 |

High-Output LEDs

• Typical DC forward current 20mA



*Web Code: RBJ

* Order in multiples of 10

| Part No. | Product No. | *Mfr. | Fig. | Emitting Color | Lens/Feature Description | LED Size | Diameter inch/mm | Dimensions | | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing | | | |
|----------|----------------------|-------|------|----------------|--------------------------|----------|------------------|------------|------|--------------|------------|-------------|---------------|----------------|---------|--------|--------|--------|
| | | | | | | | | A" | B" | | | | | | 1 | 10 | 100 | 1000 |
| 2168421 | 3MMLED-BLUE | JVP | 1 | Blue | Blue diffused | T1 | 0.119/3 | 0.15 | 0.69 | 0.10 | 3.4 | 5000 | 465 | 120 | \$.29 | \$.25 | \$.19 | \$.15 |
| 2169846 | 3MMLED-GREEN | JVP | 1 | Green | Green diffused | T1 | 0.119/3 | 0.15 | 0.69 | 0.10 | 3.4 | 5000 | 520 | 120 | * | .19 | .15 | .12 |
| 2174881 | 3MMLED-WHITE | JVP | 1 | White | White diffused | T1 | 0.119/3 | 0.15 | 0.69 | 0.10 | 3.4 | 8000 | — | 120 | * | .19 | .15 | .12 |
| 2138855 | MCD-3014UEC-TL | ADT | 2 | White | Water clear | T1 | 0.119/3 | 0.17 | 1.00 | 0.10 | 2.1 | 3000 | — | 25 | .99 | .89 | .79 | .69 |
| 2205430 | MCD-3014UEC-TL | JVP | 2 | Red | Water clear | T1 | 0.119/3 | 0.17 | 1.00 | 0.10 | 2.1 | 3000 | 620 | 25 | .69 | .59 | .49 | .39 |
| 2228480 | C4SMB-RGF | CRE | 2 | Red | Red transparent | Oval | 0.157/4 | 0.25 | 1.11 | 0.10 | 2.0 | 4600 | 621 | 90x45 | .25 | .09 | .07 | .06 |
| 2228498 | C4SMB-GGF | CRE | 2 | Green | Green transparent | Oval | 0.157/4 | 0.25 | 1.11 | 0.10 | 3.0 | 12000 | 524 | 90x45 | .25 | .09 | .07 | .06 |
| 2228501 | C4SMB-BGF | CRE | 2 | Blue | Blue transparent | Oval | 0.157/4 | 0.25 | 1.11 | 0.10 | 3.2 | 2130 | 470 | 90x45 | .25 | .19 | .17 | .15 |
| 2238303 | 5MMLED-PINK | JVP | 1 | Pink | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.98 | 0.10 | 3.2 | 5000 | 680 | 20 | .39 | .35 | .29 | .25 |
| 333447 | UT1873-81-UR-P22R | JVP | 2 | Super Red | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.89 | 0.10 | 1.9 | 1600 | 660 | 25 | .25 | .19 | .17 | .15 |
| 333526 | LUR3833 | JVP | 1 | Red | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.02 | 0.10 | 1.5 | 2700 | 660 | 12 | .25 | .21 | .19 | .16 |
| 2188449 | LHRF3333S/S46-PF-B01 | JVP | 1 | Red | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.00 | 0.10 | 2.1 | 5000 | 625 | 30 | .39 | .35 | .29 | .22 |
| 2203813 | MCDL-5013UEC-TL-H | JVP | 2 | Super Red | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.00 | 0.10 | 2.0 | 7000 | 630 | 20 | .49 | .45 | .39 | .29 |
| 333673 | LUE3833 | JVP | 2 | Orange | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.98 | 0.10 | 1.7 | 5000 | 620 | 12 | .49 | .45 | .35 | .29 |
| 333569 | LVY3333/A* | JVP | 1 | Yellow | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.98 | 0.10 | 1.7 | 2500 | 590 | 20 | * | .15 | .12 | .10 |
| 2186419 | LTL-2H3VYKNT | LTO | 1 | Amber/Yellow | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.87 | 0.10 | 2.0 | 3400 | 595 | 15 | * | .12 | .09 | .07 |
| 333614 | LUY3833H | JVP | 1 | Yellow | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.98 | 0.10 | 1.7 | 5000 | 590 | 12 | .59 | .55 | .49 | .45 |
| 2095189 | RL50-PY543 | JVP | 2 | Ultra Yellow | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.02 | 0.10 | 1.7 | 8000 | 595 | 20 | .39 | .29 | .19 | .15 |
| 2006772 | LTL-2H3VYKNT1 | LTO | 1 | Amber/Yellow | Water clear, flanged | T1 ¾ | 0.197/5 | 0.30 | 0.87 | 0.10 | 2.0 | 3400 | 595 | 15 | .25 | .08 | .06 | .04 |
| 2167251 | MCDL-5013BGC-TL | JVP | 2 | Green/Blue | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.96 | 0.10 | 3.2 | 11000 | 510 | 30 | .99 | .89 | .79 | .65 |
| 334473 | LDGL3333/HO | JVP | 1 | Green | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.98 | 0.10 | 3.5 | 3400 | 505 | 22 | .89 | .79 | .69 | .59 |
| 2210706 | MCDL-5013BGC-T | JVP | 1 | Green | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.00 | 0.10 | 3.5 | 7000 | 505 | 18 | .75 | .69 | .59 | .49 |
| 2077079 | HLMP-CM39-UVCD | AGT | 2 | Green | Untinted/non-diffused | T1 ¾ | 0.197/5 | 0.30 | 0.90 | 0.10 | 3.2 | 5000 | 535 | 30 | .39 | .35 | .29 | .25 |
| 2179711 | MCDL-5013UBD | JVP | 2 | Blue | Blue diffused | T1 ¾ | 0.197/5 | 0.34 | 1.06 | 0.10 | 3.3 | 995 | 460 | 20 | .99 | .89 | .79 | .69 |
| 2193889 | LTL-2P3TBK5 | LTO | 1 | Blue | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.90 | 0.10 | 3.5 | 1900 | 468 | 15 | .49 | .39 | .29 | .25 |
| 2188668 | SSL-LX5093XUSBC | LUM | 1 | Super Blue | Water clear | T1 ¾ | 0.197/5 | 0.34 | 1.04 | 0.10 | 3.5 | 2500 | 470 | 10 | .69 | .59 | .49 | .39 |
| 2210896 | Q62703Q5931 | OSR | 1 | Blue | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.06 | 0.10 | 3.5 | 2800 | 470 | 15 | .49 | .45 | .39 | .35 |
| 183222 | MCDL-5013UBC-TL | JVP | 1 | Blue | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.94 | 0.10 | 3.5 | 6000 | 470 | 18 | 1.39 | 1.25 | 1.09 | .99 |
| 334502 | LWK3333 | JVP | 1 | White | Water clear | T1 ¾ | 0.197/5 | 0.30 | 0.94 | 0.10 | 3.5 | 5000 | — | 16 | .99 | .89 | .79 | .69 |
| 320531 | MCDL-5013UWC | JVP | 1 | White | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.00 | 0.10 | 3.8 | 5000 | — | 15 | 1.09 | .89 | .89 | .79 |
| 2077061 | EM-503QWC-R12 | ADT | 2 | White | Water clear | T1 ¾ | 0.197/5 | 0.30 | 1.04 | 0.10 | 4.5 | 5000 | — | 25 | .99 | .89 | .79 | .69 |
| 2144753 | TLWB7600 | VSH | 3 | Blue | Water clear (7.62mm sq.) | 2mm dome | 0.079/2 | 0.30 | 0.30 | 0.20 | 4.3 | 2000 | 470 | 30 | .69 | .59 | .49 | .45 |
| 2227903 | LTL911VEKSA | LTO | 3 | Red | Water clear (7.62mm sq.) | 3mm dome | 0.118/3 | 0.30 | 0.30 | 0.20 | 2.15 | 600 | 632 | 70 | .39 | .29 | .25 | .19 |

*10 pcs. in LEDs & LED mounting hardware cabinet kit, pg 29

* ADT = Arndt | AGT = Agilent | AVT = Avago Technology | CRE = Cree | JVP = Jameco ValuePro | LTO = Lite-On | LUM = Lumex Optoelectronics | OSR = Osram | VSH = Vishay

High-Output LEDs & Circuit Board Indicators

High-Output LEDs (Continued)

Figure images on previous page

*Web Code: RBJ

| Part No. | Product No. | Mfr. | Fig. | Emitting Color | Lens/Feature Description | LED Size | Diameter inch/mm | Dimensions | | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing | | | |
|----------|------------------|------|------|----------------|--------------------------|----------|------------------|------------|------|--------------|------------|-------------|---------------|----------------|---------|--------|--------|--------|
| | | | | | | | | A" | B" | | | | | | 1 | 10 | 100 | 1000 |
| 2005702 | LTL912VEKSA | LTO | 3 | Red | Water clear (7.62mm sq.) | 3mm dome | 0.119/3 | 0.30 | 0.30 | 0.20 | 2.15 | 1200 | 632 | 50 | \$1.49 | \$1.39 | \$1.09 | \$0.95 |
| 664341 | MCDL-1870UWC-15C | JVP | 3 | White | Water clear (7.62mm sq.) | 3mm dome | 0.119/3 | 0.30 | 0.30 | 0.20 | 3.5 | 6500 | — | 40 | 1.39 | 1.25 | 1.09 | .95 |
| 404582 | MCDL-1860UWC-15C | JVP | 3 | Ultra White | Water clear (7.62mm sq.) | 3mm dome | 0.119/3 | 0.30 | 0.30 | 0.20 | 3.5 | 3500 | — | 75 | 1.39 | 1.25 | 1.09 | .95 |
| 2167402 | MVL-904TUVC | UNI | 3 | Yellow | Water clear (7.62mm sq.) | 3mm dome | 0.119/3 | 0.30 | 0.30 | 0.20 | 2.2 | 4000 | 625 | 70 | .49 | .39 | .29 | .25 |
| 2167411 | MVL-904MTGC | UNI | 3 | Green | Water clear (7.62mm sq.) | 3mm dome | 0.119/3 | 0.30 | 0.30 | 0.20 | 3.7 | 2000 | 525 | 50 | .49 | .39 | .29 | .25 |
| 2167390 | MVL-904MW | UNI | 3 | White | Water clear (7.62mm sq.) | 3mm dome | 0.119/3 | 0.30 | 0.30 | 0.20 | 3.5 | 4000 | 528 | 30 | .59 | .49 | .39 | .35 |
| 2205296 | MCD-10003URC | JVP | 2 | Red | Water clear | 10mm | 0.394/10 | 0.47 | 1.00 | 0.10 | 1.9 | 1500 | 660 | 20 | .79 | .69 | .59 | .49 |
| 2205309 | MCD-10003UEC | JVP | 2 | Orange | Water clear | 10mm | 0.394/10 | 0.47 | 1.00 | 0.10 | 2.0 | 2000 | 625 | 20 | .79 | .69 | .59 | .49 |
| 2205317 | MCD-10003UYC | JVP | 2 | Yellow | Water clear | 10mm | 0.394/10 | 0.47 | 1.00 | 0.10 | 2.0 | 1800 | 589 | 20 | .79 | .69 | .59 | .49 |
| 2205325 | MCD-10003BC | JVP | 2 | Blue | Water clear | 10mm | 0.394/10 | 0.47 | 1.00 | 0.10 | 3.5 | 3000 | 470 | 20 | .99 | .89 | .79 | .69 |
| 2205333 | MCD-10003PGC | JVP | 2 | Green | Water clear | 10mm | 0.394/10 | 0.47 | 1.00 | 0.10 | 3.5 | 11000 | 525 | 20 | .99 | .89 | .79 | .69 |
| 2205341 | MCD-10003UWC | JVP | 2 | White | Water clear | 10mm | 0.394/10 | 0.47 | 1.00 | 0.10 | 3.5 | 9000 | — | 20 | 1.09 | .99 | .89 | .79 |

Optos

JAMECO ValuePro RGB High-Output LEDs

Figure images on previous page

*Web Code: RKK

| Part No. | Cross Ref. No. | Mfr. | Fig. | Emitting Color | Lens/Feature Description | LED Size | Diameter inch/mm | Dimensions | | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing | | | |
|----------|-----------------------|------|------|----------------|--------------------------|----------|------------------|------------|------|--------------|--------------|----------------|---------------|----------------|---------|--------|--------|--------|
| | | | | | | | | A" | B" | | | | | | 1 | 10 | 100 | 500 |
| 2211119 | MSL-504RGB-4P* | JVP | 4 | Red/Green/Blue | Water clear | T1 ¼ | 0.197/5 | 0.30 | 1.00 | 0.05 | 2.0/3.4/3.4 | 2000/3000/1200 | 625/525/470 | 25 | \$1.75 | \$1.59 | \$1.39 | \$1.25 |
| 2211127 | MSL-504RGB-4P** | JVP | 4 | Red/Green/Blue | Water clear | T1 ¼ | 0.197/5 | 0.30 | 1.00 | 0.05 | 2.0/3.4/3.4 | 2000/3000/1200 | 625/525/470 | 25 | 1.75 | 1.59 | 1.39 | 1.25 |
| 2125181 | MCDL-5T8R6G5B6C* | JVP | 4 | Red/Green/Blue | Water clear | T1 ¼ | 0.197/5 | 0.34 | 1.11 | 0.028 | 2.25/3.5/3.5 | 3500/4000/2000 | 624/525/470 | 20 | 2.49 | 2.25 | 1.95 | 1.75 |
| 2128500 | MCDL-5013RGBBC-TL-A** | JVP | 4 | Red/Green/Blue | Water clear | T1 ¼ | 0.197/5 | 0.30 | 0.78 | 0.05 | 2.0/3.5/3.5 | 3000/5000/1000 | 628/525/470 | 25 | 2.49 | 2.25 | 1.95 | 1.75 |
| 2210829 | MCDL-5T8R6G5B6C-CA** | JVP | 4 | Red/Green/Blue | Water clear | T1 ¼ | 0.197/5 | 0.34 | 1.11 | 0.028 | 2.25/3.5/3.5 | 3500/4000/2000 | 624/525/470 | 20 | 1.95 | 1.75 | 1.59 | 1.35 |
| 2228957 | RGB-LED-CC-5-WC* | JVP | 4 | Red/Green/Blue | Water clear | T1 ¼ | 0.197/5 | 0.30 | 1.00 | 0.05 | 2.0/3.2/3.2 | 5000/9000/6000 | 625/525/470 | 20 | .39 | .35 | .29 | .25 |
| 2157271 | MCDL-5013RGBW-B | JVP | 1 | Red/Green/Blue | Diffused | T1 ¼ | 0.197/5 | 0.30 | 1.00 | 0.10 | 2.3/3.5/3.5 | 300/300/300 | 630/525/470 | 40 | 2.25 | 1.95 | 1.75 | 1.49 |
| 2219559 | RGB-LED-CC-5* | JVP | 4 | Red/Green/Blue | Diffused | T1 ¼ | 0.197/5 | 0.30 | 1.00 | 0.05 | 2.0/3.2/3.2 | 5000/9000/6000 | 625/525/470 | 20 | .39 | .35 | .29 | .25 |
| 2219567 | RGB-LED-CA-10** | JVP | 4 | Red/Green/Blue | Diffused | 10mm | 0.394/10 | 0.52 | 1.00 | 0.06 | 2.0/3.2/3.2 | 700/800/400 | 625/525/470 | 20 | 1.59 | 1.45 | 1.29 | 1.19 |
| 2219575 | RGB-LED-CC-10* | JVP | 4 | Red/Green/Blue | Diffused | 10mm | 0.394/10 | 0.52 | 1.00 | 0.06 | 2.0/3.2/3.2 | 700/800/400 | 625/525/470 | 20 | 1.59 | 1.45 | 1.29 | 1.19 |
| 2152163 | MCDL-833RGBW-B | JVP | 1 | Red/Green/Blue | Diffused | 10mm | 0.394/10 | 0.43 | 1.00 | 0.10 | 5.0/5.0/5.0 | 700/800/400 | 625/525/470 | 20 | 2.25 | 1.95 | 1.75 | 1.49 |

*Common Cathode **Common Anode †Auto blink/color change function

Dialight

Standard-Output LED Circuit Board Indicators (CBI)



CLOSEOUT

| Part No. | Product No. | Fig. | Emitting Color | Lens/Feature Description | LED Size | Diameter inch/mm | Dimensions | | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing | | | |
|----------|--------------|------|------------------------|--------------------------|---|------------------|------------|------|--------------|------------|-------------|---------------|----------------|---------|--------|--------|--------|
| | | | | | | | A" | B" | | | | | | 1 | 10 | 100 | 1000 |
| 2183082 | 551-3107 | 1 | Yellow/Green* | Diffused, tinted | T1 | 0.119/3 | 0.28 | 0.17 | 0.100 | 2.1/2.1 | 4.3/6.3 | 585/565 | 80 | \$2.25 | \$2.04 | \$1.03 | \$0.02 |
| 1943609 | 553-0222 | 2 | Green (2 LEDs) | Diffused, tinted | T1 | 0.119/3 | 0.38 | 0.17 | 0.100 | 1.9 | 1.6 | 565 | 60 | .25 | .05 | .04 | .02 |
| 1716334 | 553-0711 | 2 | Red/Grn (2 LEDs)* | Diffused, tinted | T1 | 0.119/3 | 0.38 | 0.17 | 0.100 | 2.0/2.1 | 4.7/10 | 635/565 | 50 | .29 | .25 | .19 | .15 |
| 2133552 | 550-1206 | 3 | Yellow | Yellow diffused | T1 ¼ | 0.197/5 | 0.24 | 0.24 | 0.100 | 1.9 | 1.8 | 583 | 50 | .25 | .12 | .10 | .07 |
| 2183058 | 550-3006 | 3 | Red/Green* | White diffused | T1 ¼ | 0.197/5 | 0.25 | 0.25 | 0.100 | 1.8/2.1 | 90/40 | 660/565 | 60 | .25 | .10 | .08 | .05 |
| 2183496 | 550-0004-826 | 4 | Yellow (4 LEDs) horiz. | Tinted, non-diffused | T1 ¼ | 0.197/5 | 0.98 | 0.24 | 0.100 | 1.7 | 7 | 585 | 55 | .29 | .19 | .15 | .12 |
| 2183146 | 561-1101-070 | 5 | Red | Tinted, non-diffused | T1 ¼ | 0.197/5 | 0.70 | 0.28 | 0.100 | 1.8 | 2.0 | 635 | 50 | .25 | .12 | .09 | .07 |
| 2203311 | GB310 | 6 | 100 pcs. PCB | Housing LEDs | T1, T1 ¼ multiple LEDs, R/A, straight, various colors | | | | | | | | | 4.95 | 4.49 | 3.95 | 3.59 |

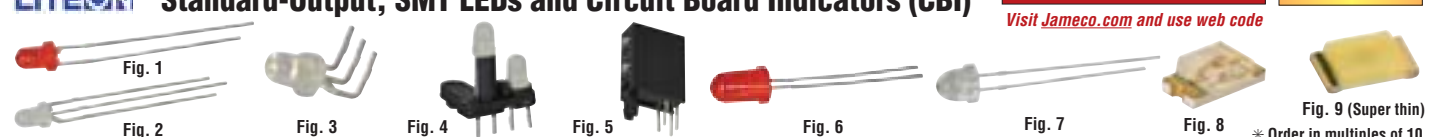
*Bi-color

LITEON

Standard-Output, SMT LEDs and Circuit Board Indicators (CBI)

5 Million pieces Lite-On LED Sale!

*Web Code: SOI



* Order in multiples of 10

| Part No. | Product No. | Fig. | Emitting Color | Lens/Feature Description | LED Size | Diameter inch/mm | Dimensions | | Lead Spacing | Typical Vf | Typical mcd | Wavelength nm | Viewing Angle° | Pricing | | | |
|----------|----------------|------|---------------------|--------------------------|----------|------------------|------------|-------|--------------|------------|-------------|---------------|----------------|---------|--------|--------|--------|
| | | | | | | | A" | B" | | | | | | 1 | 10 | 100 | 1000 |
| 2186515 | LTL-4202 | 1 | Red | Transparent | T1 | 0.119/3 | 0.17 | 1.00 | 0.10 | 1.7 | 5.6 | 655 | 20 | \$2.25 | \$2.05 | \$1.03 | \$0.02 |
| 2186371 | LTL-1BEWJ | 2 | Red/Green | Diffused (3 lead) | T1 | 0.119/3 | 0.16 | 0.79 | 0.10 | 1.8/2.1 | 12.6/5.6 | 660/565 | 140 | .25 | .07 | .06 | .05 |
| 2186451 | LTL-1BEHKVMP1 | 3 | Hi Eff. Red/Green | Water Clear (3 lead) | T1 | 0.119/3 | 0.16 | 0.19 | 0.10 | 2.0/2.1 | 19/29 | 650/565 | 55 | .25 | .06 | .05 | .04 |
| 790111 | LTL-16KGE | 1 | Green | Diffused | T1 | 0.119/3 | 0.16 | 0.95 | 0.10 | 2.1 | 40 | 569 | 45 | .25 | .05 | .04 | .03 |
| 2186304 | LTL-14CHJE | 4 | Green/Red Orange | Diffused (4 lead) | T1 | 0.119/3 | 0.13 | 0.14 | 0.10 | 2.1/2.0 | 4.8 | 565/630 | 200 | .25 | .04 | .03 | .02 |
| 2186275 | L934JQ/2GC-C15 | 5 | Green/Green (dual) | Diffused | T1 | 0.119/3 | 0.50 | 0.18 | 0.10 | 1.8 | 20 | 568 | 60 | .25 | .04 | .03 | .02 |
| 2186321 | LTL-4204 | 6 | Red | Transparent | T1 ¼ | 0.197/5 | 0.30 | 1.00 | 0.10 | 1.7 | 19 | 655 | 16 | .25 | .05 | .04 | .03 |
| 2186259 | LTL-5238 | 7 | Green (low profile) | Water Clear | T1 ¼ | 0.197/5 | 0.18 | 1.00 | 0.10 | 2.1 | 34 | 565 | 44 | .25 | .04 | .03 | .02 |
| 697741 | LTST-C150GKT | 8 | Green | Water Clear | SMT-1206 | 0.08/2 | 0.125 | 0.06 | — | 2.1 | 6 | 565 | 130 | .25 | .10 | .08 | .07 |
| 2033164 | LTL-5238 | 9 | White | Water Clear | SMT-0603 | 0.04/1.1 | 0.06 | 0.003 | — | 3.2 | 112 | — | 130 | * | .19 | .13 | .09 |

* JVP = Jameco ValuePro | LTO = Lite-On | UNI = Unity Opto Technology

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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LIGITEK MCD High Power LEDs with Heat Sink

- Superior high-flux output and high luminance
- Lambertian or 'High Dome' LED has a high hemispherical dome with a wider 140° viewing angle
- Represents Star form factor with heat sink
- High dome series projects a wider and clearer light beam
- ESD protection



2096843



2006908

| Part No. | Mfr. | Mfr. Part No. | Power (W) | Color | Volt. @ Curr. (Vf @ If) | Luminous Flux (lm) | Viewing Angle | Pricing | | |
|----------|---------|-------------------|-----------|-------|-------------------------|--------------------|---------------|---------|--------|--------|
| | | | | | | | | 1 | 10 | 50 |
| 2096843 | MCD | MCDL-L20-350HPCWS | 1 | White | 3.2 @ 0.35A | 90 | 140° | \$5.95 | \$5.49 | \$4.95 |
| 2006908 | Ligitek | L-HP3PW | 3 | White | 3.2 @ 1A | 120 | 90° | 5.95 | 5.49 | 4.95 |
| 2197775 | MCD | MCDL-L20-350HP3RE | 2 | Red | 2.4 @ 1A | 80 | 140° | 5.95 | 5.49 | 4.95 |

*Web Code: HPL

JKL 12-24V LED Dimmer

Control the brightness of single channel constant voltage LED devices and fixtures operating at 12-24VDC. Dim from 100% full brightness to 20% brightness without flickering. Good for display cases, architectural and cove lighting applications.

- 8 amps maximum load
- Size 2.0"L x 3.0"W
- Operating temperature: 0°F – 140°F

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 2153140 | ZDM-01 | \$14.95 | \$13.95 |

JAMECO ValuePro High-Output RGB LEDs

*Web Code: RBJ

Now you can have red, green, and blue (RGB) colors from one single LED that provides high radiant power and intensity.

Complete selection of LEDs on pages 18-23

2125181



- LED size: T1 3/4 (5mm)
- Water clear and diffused lens RGB LEDs

| Part No. | Lens | MCD | 1 | 10 | 100 |
|----------|-------------|----------------|--------|--------|--------|
| 2125181 | Water clear | 3500/4000/2000 | \$2.49 | \$2.25 | \$1.95 |
| 2128500 | Water clear | 3000/5000/1000 | 2.49 | 2.25 | 1.95 |
| 2219559 | Diffused | 5000/9000/6000 | .39 | .35 | .29 |
| 2157271 | Diffused | 300/300/300 | 2.25 | 1.95 | 1.75 |

THINKGEAR M BlinkM Programmable Smart LEDs



2123645



2123637

*Web Code: SLS

Choose virtually any color, fade between two colors or make your own blinking sequence. No knowledge of programming or electronics required.

2123637: 24-bit, 4-pin I²C interface

| Part No. | Mfr. P/N | Description | 1 | 5 |
|----------|----------|---|---------|---------|
| 2123645 | MiniM | 6000 mcd, 120° FOV, 3.6-5V op. volt, 60mA max | \$14.95 | \$12.95 |
| 2123637 | BlinkM | 8000 mcd, 140° FOV, 3.6-5V op. volt, 60mA max | 13.95 | 12.95 |

JKL Festoon LED Lamp and Socket

- Scratch and shock resistant glass encapsulated
- Size: 43mm

*Web Code: FES



Shown with Socket (sold separately)

Lamp

| Part No. | Mfr. Part No. | Voltage @ Current | Color | Lumens | 1 | 10 |
|----------|---------------|-------------------|-------|--------|--------|--------|
| 2113261 | LE-0603-02W | 12VDC @ 20mA | White | 10.0 | \$3.95 | \$3.49 |

Socket

| Part No. | Mfr. Part No. | Description | 1 | 10 | 50 |
|----------|---------------|--|--------|--------|--------|
| 2113367 | 2910F-47 | Fits 40-44mm lamps, 1.97"L x .66"W x .76"H | \$.99 | \$.89 | \$.75 |

*LED Light Strips — Enter Web Code FLX



12" Slim Aluminum Light Bar Strip

Equivalent to a standard 40W light bulb!

- Ultra bright LEDs
- Consumes only 5W
- Stylish modern design
- USB mini-B connection
- Operating voltage range: 10-30VDC
- Aluminum bar with glass cover
- Up to 6 bars can be daisy-chained together with P/N 2177635
- Life expectancy: over 50,000 hours



| Part No | Color | Brightness | 1 | 5 |
|---------|----------------------------------|------------------|---------|---------|
| 2177571 | Cool white | 408 lumens | \$29.95 | \$27.95 |
| Part No | Description | | 1 | 10 |
| 2177635 | 6" mini USB connector cord | | \$2.95 | \$2.59 |

JAMECO ValuePro 3 & 4-LED Modules

*Web Code: HPZ

- 12VDC per module @ 45mA
- Color temperature: 8000k
- LED viewing angle: 120 degrees
- 0.72 watts

2224121



| Part No. | Mfr. Part No. | Description | 1 | 10 |
|----------|---------------|----------------------|--------|--------|
| 2224139 | 5050 | 3-LED SMD waterproof | \$4.49 | \$3.95 |
| 2224121 | 4XRGB | 4-LED RGB waterproof | 4.95 | 4.49 |



White LED Backlight Modules

- Near-uniform light output
- 3V @ 20mA
- 3.5mm thick

2214379

| Part No. | Mfr. Part No. | Size (L" x W") | 1 | 5 |
|----------|---------------|----------------|--------|--------|
| 2214379 | 1626 | 1.57 x 0.47 | \$2.95 | \$2.65 |
| 2214352 | 1622 | 2.95 x 0.91 | 3.49 | 2.95 |
| 2214361 | 1621 | 3.39 x 1.77 | 3.95 | 2.95 |



Distributed Array Gen II LED Module

- Operating voltage: 33-39VDC
- 36 LEDs
- Constant current module
- High brightness and contrast
- 10 years lifetime @ below 79°C (board temp)
- 9 watts, 250mA, 36VDC
- Color temperature: 4000°
- Lumens: 1225 (overall brightness)
- Binned and champing binned LED for good color and consistency



| Part No. | Mfr. Part No. | Size (in.) | 1 | 10 |
|----------|---------------|------------|--------|--------|
| 2218097 | 71914-3CK1 | 11.4 x 1.5 | \$7.95 | \$6.95 |

JAMECO ValuePro LED Assortment Kits with 3mm and 5mm LEDs

NEW MARKED IN PINK

| Part No. | Description | Voltage @ Amperage | Pieces | 1 | 10 |
|----------|--|--------------------|--------|---------|---------|
| 2259526 | 6 color round top diffused (Red, Orange, Yellow, Blue, Green, White) | 2-3V @ 8-100mA | 300 | \$11.95 | \$10.95 |
| 2238320 | 5 color clear round top (Red, Yellow, Blue, Green, White) | 2.2-3V @ 4-93mA | 300 | 9.95 | 8.95 |
| 2238338 | 5 color clear round top LED (Red, Green, Blue, Rainbow) | 2-3V @ 2-103mA | 300 | 9.95 | 8.95 |
| 2238346 | 5 color clear flat top (Red, Yellow, Green, Blue, White) | 2-3V @ 8-100mA | 300 | 11.95 | 10.95 |
| 2238354 | RGB & rainbow rnd. & straw hat (slow, fast, CA, CC) | 2.1-3V @ 9-90mA | 180 | 12.95 | 11.95 |



2259526

LED Cables, Infrared Emitters & Detectors



LED Module

Designed for superbright illumination applications.

- 16 LEDs in 4 clusters on heatsink
- 2160 Lumens, white
- 55VAC @ 70mA, 120-277VAC thru TMP circuit
- 180k mcd



| Part No. | Description | 1 | 5 | 25 |
|----------|-------------------------------|--------|--------|--------|
| 2179374 | 4 cluster LED assembly module | \$3.95 | \$3.49 | \$2.95 |

***LED Drivers — Enter Web Code REK**

RGB Controller and LED Strips

- 12V input individually controllable LEDs
- LED strips suitable for indoor and outdoor use



2214344

*** Web Code: FLX**

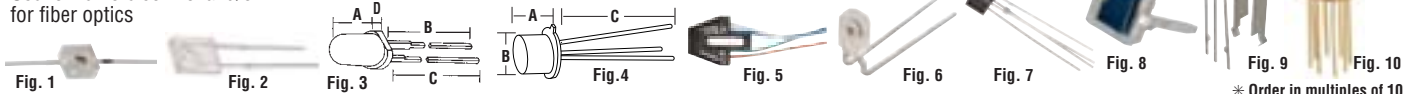


| Part No. | Mfr. | Description | 1 | 5 |
|----------|----------|------------------------------------|---------|---------|
| 2214344 | Adafruit | 1 meter RGB LED strip with 30 LEDs | \$17.95 | \$16.95 |
| 2212015 | Adafruit | 1 meter RGB LED strip with 60 LEDs | 26.95 | 24.95 |
| 2215224 | ValuPro | 1 meter RGB LED strip with 60 LEDs | 9.95 | 8.95 |

Infrared & Visible Light Emitters & Detectors

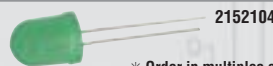
- Use for remote control and/or for fiber optics

*** Web Code: VAP**

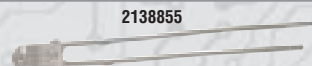


| Part No. | Product No. | Mfr. | Fig. | Description | Size | Diameter inch/mm | Dimensions (inches) | | | | Forward Voltage @ Current | Wavelength nm | mWatts | Pricing | | |
|----------|----------------|------|------|---|--------|------------------|---------------------|-------|-------|------|---------------------------|---------------|--------|---------|--------|--------|
| | | | | | | | A | B | C | D | | | | 1 | 10 | 100 |
| 2099403 | PS5022 | JVP | 1 | Phototransistor | Dome | 0.06/1.7 | 0.13 | 0.35 | 0.35 | — | 5.0 @ 20mA | 880 | 1 | \$.25 | \$.07 | \$.05 |
| 790057 | LTE-302 | LTO | 2 | Infrared emitter diode (GaAs) side look | Dome | 0.06/1.5 | 0.23 | 0.63 | 0.63 | 0.18 | 1.2 @ 20mA | 940 | 40 | .29 | .19 | .16 |
| 112150 | LIR2043 | LIG | 3 | Infrared emitter diode (GaAs) | T1 | 0.125/3 | 0.18 | 0.95 | 0.98 | 0.03 | 1.2 @ 20mA | 940 | 5 | * | .19 | .15 |
| 1950825 | L-34F3CS | JVP | 3 | Infrared emitter diode (GaAs) | T1 | 0.125/3 | 0.20 | 1.00 | 1.06 | 0.04 | 1.2 @ 20mA | 940 | 80 | .39 | .35 | .29 |
| 112176 | LPT2023 | LIG | 3 | Infrared phototransistor | T1 | 0.12/3 | 0.18 | 0.95 | 0.98 | 0.03 | 30 @ 0.1A | 940 | 100 | .39 | .35 | .29 |
| 2125261 | TSHA4400 | VSH | 3 | Infrared emitter diode (GaAlAs) water clear | T1 | 0.114/2.9 | 0.13 | 0.90 | 1.00 | 0.04 | 1.5 @ 100mA | 875 | 20 | .25 | .17 | .15 |
| 2120410 | RPT-38PB3F | RHM | 3 | Phototransistor | T1 | 0.125/3 | 0.18 | 0.95 | 0.98 | 0.03 | 5 @ 30mA | 800 | 150 | .25 | .19 | .15 |
| 1872265 | OP505A | OPT | 3 | Infrared silicon phototransistor | T1 | 0.125/3.2 | 0.20 | 0.50 | 0.50 | 0.03 | 30VBRCEO @100µA | 850 | 100 | .69 | .59 | .55 |
| 2162548 | LTE-2871 | LTO | 3 | Infrared emitter diode | T1 ¾ | 0.197/5 | 0.29 | 1.00 | 1.03 | 0.03 | 1.6 @ 20mA | 940 | 90 | .49 | .45 | .35 |
| 372737 | UT1883-81-880 | JVP | 3 | Infrared emitter diode (GaAs) water clear | T1 ¾ | 0.200/5 | 0.30 | 0.88 | 0.94 | 0.04 | 1.5 @ 50mA | 880 | 16 | .35 | .29 | .25 |
| 106526 | LVIR3333 | LIG | 3 | Infrared emitter diode (GaAs) | T1 ¾ | 0.200/5 | 0.34 | 0.78 | 0.84 | 0.04 | 1.2 @ 20mA | 940 | 8 | * | .19 | .15 |
| 372762 | UT1883-81-940 | JVP | 3 | Infrared emitter diode (GaAs) | T1 ¾ | 0.200/5 | 0.30 | 0.88 | 0.94 | 0.04 | 1.3 @ 50mA | 940 | 16 | .25 | .17 | .10 |
| 1110914 | TSAL6100 | VSH | 3 | High power infrared emitting diode | T1 ¾ | 0.23/5.8 | 0.30 | 0.98 | 1.04 | 0.04 | 1.35 @ 100mA | 940 | 210 | .49 | .45 | .35 |
| 373001 | UT1893-91-0125 | JVP | 3 | Infrared phototransistor | T1 ¾ | 0.200/5 | 0.34 | 0.88 | 0.94 | 0.04 | 30 @ 0.1A | 870 | 20 | .35 | .29 | .25 |
| 2129385 | UT1893-45-0125 | JVP | 3 | Infrared phototransistor | T1 ¾ | 0.200/5 | 0.34 | 0.88 | 0.94 | 0.04 | 30 @ 0.1A | 860/940 | 20 | .35 | .29 | .25 |
| 2205350 | SFH205 | ADT | 3 | PIN silicon photodiode | T1 ¾ | 0.201/5 | 0.272 | 0.70 | 0.75 | 0.04 | 1.3 @ 28mA | 950 | 150 | .79 | .69 | .59 |
| 1872441 | OP999 | OPT | 3 | PIN silicon photodiode | T1 ¾ | 0.205/5.3 | 0.31 | 0.69 | 0.75 | 0.04 | 1.2 @ 1mA | 200 | 100 | 1.19 | 1.09 | .99 |
| 1108144 | TEPT5600 | VSH | 3 | Silicon NPN phototransistor | T1 ¾ | 0.197/5 | 0.30 | 0.97 | 1.03 | 0.04 | 6 @ 20mA | 570 | 100 | .69 | .59 | .49 |
| 120221 | BPW77NA | VSH | 4 | NPN phototransistor | TO-18 | 0.18/4.69 | 0.24 | 0.19 | 0.52 | 0.01 | 70VCEO @ 50mA | 850 | 250 | 2.75 | 2.49 | 2.25 |
| 2227751 | OPT301M | TI | 10 | Integrated photodiode | TO-99 | 0.90/2.2 | 0.16 | 0.32 | 0.55 | — | 2.25-18 @ 400µA | 650 | — | 49.95 | 44.95 | 39.95 |
| 1872759 | OPB704WZ | OPT | 5 | Infrared emitting diode/phototransistor | — | 0.61/15.5 | 0.61 | 24 | 24 | — | 1.7 @ 40mA | 890 | 68 | 4.95 | 4.49 | 3.95 |
| 2159904 | PT101SCOLZOF | SHP | 6 | Phototransistor rect. R/A | Rect. | 0.118/0.7 | — | 0.56 | 0.61 | — | 3.5 @ 2mA | 620 | 5 | .25 | .12 | .10 |
| 874939 | QRD1114 | FSC | 7 | Reflective object sensor phototransistor | Rect. | 0.24/6.1 | 0.18 | 0.17 | 0.5 | — | 1.7 @ 20mA | 940 | 100 | 1.49 | 1.29 | .99 |
| 1621132 | BPW34 | SYL | 8 | PIN silicon photodiode chip | Square | — | 0.075 | 0.157 | 0.118 | — | 1.3 @ 80µA | 850 | 150 | 1.05 | .99 | .89 |
| 2035661 | TSOP4840 | VSH | 7 | Infrared remote receiver (40kHz) | Dome | 0.24/6 | 0.27 | 0.92 | 0.88 | — | 5 @ 1.2mA | 950 | 50 | .89 | .75 | .59 |
| 2109691 | 350-00014 | PLX | 2 | Infrared receiver (38kHz) | Dome | 0.24/6 | 0.27 | 0.92 | 0.118 | — | 3.3 @ 0.35mA | 940 | 10 | 1.15 | 1.05 | .95 |
| 2129772 | GP1UM287RK | SHP | 9 | Infrared receiver (56.8kHz) | Dome | 0.20/5 | 0.22 | 0.30 | 0.118 | 0.14 | 5 @ 0.95mA | 940 | 8 | .59 | .49 | .45 |
| 2211047 | GP1UD271XKOF | SHP | 9 | Infrared receiver (38kHz) | Dome | 0.15/4 | 0.29 | 0.40 | 0.118 | 0.14 | 5 @ 140µA | 1000 | 1 | .75 | .65 | .55 |
| 2229351 | TSOP4838 | VSH | 2 | Infrared receiver (38kHz) | Dome | 0.18/4.7 | 0.27 | 0.90 | 0.90 | 0.16 | 4.5-5.5 @ 5mA | 950 | 10 | .89 | .79 | .69 |

BEST SELLING LEDs



2152104



2138855

2188668

*** Web Code: ZZT**

| * Order in multiples of 10 | | | | | | | | | | * Order in multiples of 10 | | | | | | | | | |
|----------------------------|----------|-----------------|----------|------------|-------|-------|-------|-------|--|----------------------------|----------|-----------------------|----------|--------|-------|-------|-------|-------|--|
| Part No. | Mfr. | Part No. | Mfr. | Color | 1 | 10 | 100 | 1000 | | Part No. | Mfr. | Part No. | Mfr. | Color | 1 | 10 | 100 | 1000 | |
| 333851 | ValuePro | UT6371-41-M1-R | ValuePro | Red | \$.12 | \$.10 | \$.08 | \$.08 | | 333551 | ValuePro | LVG13233 | ValuePro | Green | \$.17 | \$.14 | \$.10 | \$.10 | |
| 333201 | ValuePro | LG12340 | ValuePro | Green | .12 | .10 | .08 | .08 | | 98968 | Avago | QLMP-LB98 | Avago | Blue | .39 | .35 | .29 | .19 | |
| 333383 | ValuePro | UT63B1-41-URC3 | ValuePro | Blue | .59 | .49 | .39 | .29 | | 2129625 | ValuePro | LDUV3333 | ValuePro | Purple | 1.25 | 1.15 | .99 | .85 | |
| 107393 | ValuePro | LE3330 | ValuePro | Orange Red | .12 | .10 | .08 | .08 | | 2138855 | ValuePro | LUW30243 | ValuePro | White | .99 | .89 | .79 | .69 | |
| 697653 | ValuePro | LTL-4233-012 | ValuePro | Green | .12 | .10 | .08 | .08 | | 333447 | ValuePro | UT1873-81-UR-P22-R | ValuePro | Red | .25 | .19 | .17 | .15 | |
| 334182 | ValuePro | LHG3362 | ValuePro | Red/Green | .19 | .17 | .15 | .15 | | 2188668 | Lumex | SSL-LX5093XUSBC | Lumex | Blue | .69 | .59 | .49 | .39 | |
| 138691 | ValuePro | LVB3330 | ValuePro | Blue | .99 | .89 | .75 | .69 | | 2205341 | ValuePro | MCD-10003UWC | ValuePro | White | 1.09 | .99 | .89 | .79 | |
| 2152104 | ValuePro | MCDL-10003SGD | ValuePro | Green | .59 | .55 | .49 | .39 | | 2115493 | ValuePro | UT5HW3-4D-URC3-4861-R | ValuePro | White | 1.19 | 1.09 | .99 | .89 | |
| 2174881 | ValuePro | 3MMLD-WHITE | ValuePro | White | .19 | .15 | .12 | .12 | | 404582 | ValuePro | MCDL-1860UWC-15C | ValuePro | White | 1.39 | 1.25 | 1.09 | .95 | |
| 2167251 | ValuePro | MCDL-5013BGC-TL | ValuePro | Green/Blue | .99 | .89 | .79 | .65 | | 2205296 | ValuePro | MCD-10003URC | ValuePro | Red | .79 | .69 | .59 | .49 | |
| 333526 | ValuePro | LUR3833 | ValuePro | Red | .25 | .21 | .19 | .16 | | 2205325 | ValuePro | MCD-10003BC | ValuePro | Blue | .99 | .89 | .79 | .69 | |

* ADT = Arndt | FSC = Fairchild Semi | JVP = ValuePro | LIG = Ligitek | LTO = Lite-On | OPT = Optek | PLX = Parallax | RHM = Rohm | SYL = Sylvania | SHP = Sharp | TI = Texas Instrument | VSH = Vishay

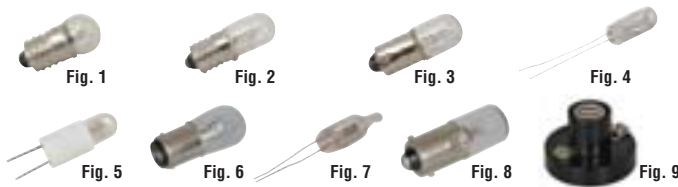
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Optos



JAMECO ValuePro

Incandescent Lamps

Dialight

★ Web Code: DBH

| Part No. | Cross Ref. | Fig. | Description | Volts | MSCP | 1 | 10 | 100 |
|----------|------------|------|-----------------------------------|-------|------|--------|--------|--------|
| 209390 | 14 | 1 | G3 1/2 miniature screw | 2.47 | .50 | \$.65 | \$.59 | \$.49 |
| 209402 | 40 | 2 | T3 1/4 miniature screw | 6.3 | .50 | .49 | .45 | .39 |
| 2229861 | 40 | 2 | T3 1/4 miniature screw | 6.3 | .50 | .49 | .45 | .39 |
| 209437 | 47 | 3 | T3 1/4 miniature bayonet | 6.3 | .50 | .49 | .45 | .39 |
| 141073 | 2182 | 4 | T1 3/4 wire terminal | 14 | .34 | .49 | .45 | .39 |
| 141066 | 2200 | 4 | T1 3/4 wire terminal | 5 | .05 | .44 | .39 | .34 |
| 210008 | 7328 | 5 | T1 3/4 bi-pin | 6 | .60 | .69 | .59 | .49 |
| 210032 | 7382 | 5 | T1 3/4 bi-pin | 14 | .30 | .75 | .69 | .59 |
| 2203303 | 6S6DC | 6 | S6 DC Bayonet Base | 120 | 4.3 | 1.49 | 1.25 | 1.05 |
| 2237562 | 2720356 | 9 | E10 lamp holder base, screw term. | — | — | 1.95 | 1.75 | 1.55 |

JAMECO

ValuePro

Neon Lamps

JKL

★ Web Code: VAD

| Part No. | Cross Ref. | Fig. | Description | Voltage | 1 | 10 | 100 |
|----------|--------------|------|----------------------------|---------|--------|--------|--------|
| 27351 | A1A (NE-2) | 7 | Wire terminal .5mA, 12mm L | 65-120 | \$.59 | \$.49 | \$.39 |
| 210260 | A9A (NE-2E) | 7 | Wire terminal .7mA | 65-120 | .49 | .39 | .35 |
| 210315 | C2A (NE-2H) | 7 | Wire term. 1.9mA, 18mm L | 65-120 | .45 | .35 | .25 |
| 2203291 | B2A (NE-51H) | 8 | T3 Bay Base 1.2mA | 105-125 | .95 | .85 | .75 |

Cluster Type T1-3/4 LED Lamp

- Cluster type 4 orange-red 5mm LEDs • 634mm
- Lens: red tinted transparent • Luminous uniformity: 16cd
- Vf @ If = 9V @ 20mA (typical) • 26mm diameter case size
- 21" long-2-wire with connector • 30 degree viewing angle

| Part No. | Cross Ref. No. | Description | 1 | 10 | 100 |
|----------|----------------|------------------|--------|--------|--------|
| 2155276 | BVM-R26QT4 | LED cluster lamp | \$.49 | \$.45 | \$.39 |

Monolithic Multi-Digit Array Display

PCB mounted, magnified, monolithic, 7 or 14 segment red digits, with digit heights of 100, 110 and 140 mil (2.54, 2.79, 3.56mm), and is intended for small, low cost numeric indication.

- Number of digits: 6 • Digit height: .100" (2.54mm)
- Lens/magnification: clear, bubble, 2x
- Viewing angle: 25°C horizontal/32°C vertical
- Luminous intensity: 0.40 mcd @ 5mA
- Package code: NH • PCB length: 2.0" (51.2mm)
- Forward voltage: 1.65V @ 5mA

| Part No. | Mfr. Part No. | 1 | 10 | 50 | 100 |
|----------|---------------|--------|--------|--------|--------|
| 2210976 | NSA1166 | \$2.49 | \$2.25 | \$1.95 | \$1.59 |

alpec 5mW Red Laser Pointers

| Part No. | Mfr. P/N | Case Color | nm | Range | Size (L" x Dia.) | 1 | 5 | 25 | 100 |
|----------|----------|---|-----|--------|------------------|---------|---------|---------|---------|
| 223731 | 5608* | Black | 532 | >6000' | 5.6 x 0.5 | \$79.95 | \$71.95 | \$64.75 | \$58.25 |
| 2215558 | 4070† | Silver | 650 | 3000' | .75 x 3.5 | 4.95 | 4.49 | 3.95 | 3.59 |
| 153605 | 4012 | Black | 670 | 1500' | 5.2 x 0.4 | 21.95 | 19.95 | 17.95 | 15.95 |
| 2215523 | 6290 | Matte silver✓ | 650 | 1500' | 1.75 x 3 x 0.6 | 1.95 | 1.79 | 1.59 | 1.49 |
| 2215540 | 6203 | Black✓ | 650 | 1500' | 3.6 x 0.9 x 0.25 | 1.95 | 1.75 | 1.49 | 1.25 |
| 2215531 | 6206 | Silver✓ | 650 | 1500' | 3.6 x 0.9 x 0.25 | 1.25 | 1.09 | .99 | .85 |
| 2215611 | 4824-W | White✓ | 650 | 1500' | 0.8 x 0.5 x 3.5 | 1.49 | 1.25 | .99 | .85 |
| 2215620 | 4825-Y | Yellow✓ | 650 | 1500' | 0.8 x 0.5 x 3.5 | 1.75 | 1.49 | 1.25 | 1.09 |
| 2228691 | GB219 | 5 assorted red laser pointers above (✓) | | | | 6.95 | 6.25 | 5.95 | 5.49 |

* Green laser † With "C" cell batteries

JKL Wedge Base LED Lamp

★ Web Code: WBL

Wedge LEDs can replace filament bulbs commonly found in automotive and water craft applications. The LEDs feature an integrated diode for reverse voltage protection and a current limiting resistor.

| Part No. | Mfr. Part No. | Volt. @ Current | Color | Wavelength | Lumens | 1 | 10 | 100 |
|----------|---------------|-----------------|-------|---------------|--------|--------|--------|--------|
| 2123371 | LE-0503-03W | 12VDC @ 15mA | White | X=0.3; Y=0.29 | 2.5 | \$1.25 | \$1.09 | \$.99 |

Multi-Chip Based LED Lamps

T1 3/4 - Midget Flange (Polarized)

392690

| Part No. | Product No. | Color | Nominal Voltage | Forward Current (mA) typ. | Intensity (mcd) typ. | Wavelength (nm) | Pricing | | |
|----------|-------------|--------|-----------------|---------------------------|----------------------|-----------------|---------|--------|--------|
| | | | | | | | 1 | 10 | 100 |
| 392690 | 585-1413 | Yellow | 14 | 30 | 23 | 585 | \$1.95 | \$1.75 | \$1.49 |
| 392681 | 585-1313 | Green | 14 | 28 | 70 | 565 | 1.95 | 1.75 | 1.49 |
| 392702 | 585-1215 | Red | 28 | 16 | 64 | 660 | 1.95 | 1.75 | 1.49 |

JKL 12" Fluorescent Lamp & Power Supply

Now you can easily and affordably mount these fluorescent lamps to add cool cold-cathode effects and give your display a richer look and feel.

★ Web Code: ABP

| Part No. | Mfr. | Mfr. Part No. | Description | Size (L" x Dia.) | 1 | 10 | 25 |
|----------|----------|---------------|------------------------------------|------------------|--------|--------|--------|
| 2077466 | JKL | FLC12-12 | Cool white lamp† | 12 x .120 | \$1.29 | \$1.16 | \$1.05 |
| 2077440 | Velleman | FLPS | 12VDC power supply for above lamps | | 4.95 | 4.49 | 3.95 |

† 1" solder terminals

25-Watt Electronic Rapid Start Ballast

- Normal power factor, open circuit voltage: 600V, D/C
- 120VAC, 50/60Hz, 0.33A

| Part No. | Mfr. | Product No. | Description | 1 | 10 | 100 |
|----------|-----------|--------------|--------------------|--------|--------|--------|
| 2100005 | Lightwave | LW20EB20-120 | For G25T5 CFL lamp | \$3.95 | \$3.49 | \$2.95 |

650nm Laser Diodes

Class IIIa Laser Product

2120428:

- Output power: 5mW min.
- Operating voltage & current: 2.6V max @ 70mA
- Wavelength: 650nm (typical)
- Beam divergence: 8° from center

2210204/2217692:

- Output power: < 5mW
- Input power: 150mW
- Operating voltage: 3VDC
- Wavelength: 650nm (typical)
- 2 wire connection

| Part No. | Mfr. | Mfr. Part No. | 1 | 10 | 100 |
|----------|----------|---------------|--------|--------|--------|
| 2120428 | Lite-On | LTLTD505T | \$2.95 | \$2.59 | \$2.39 |
| 2210204 | ValuePro | 154145 | 3.49 | 2.95 | 2.59 |
| 2217692 | Seed | IRL104A2B | 6.95 | 6.25 | 5.59 |

650nm Line and Dot Laser Diodes

Class IIIa Laser Product

143845/173243:

- Focus adjustable with locking set screw
- Wattage: 5mW
- Oper. volt.: 3-5V
- Size: 3.3"L x 0.9"Dia.
- One-year warranty

143845: Line laser module

- Laser line width: 1mm
- Laser fan angle: 60°

173243: Cross hair laser diode module

- Laser fan angle: 60°
- Size: 3.0"L x 0.9"D
- Female 2.1mm power connector

1940660: Module regulated power supply

- Output: 5VDC @ 1A
- Short-circuit protection
- Input voltage: 90-264VAC or 190-250VAC switchable
- Size: 2.6"H x 1.3"W x 1.9"D
- Weight: 0.6 lbs.

| Part No. | Description | 1 | 5 |
|----------|-------------------------------|----------|----------|
| 143845 | Line laser diode module | \$139.95 | \$124.95 |
| 173243 | Cross hair laser diode module | 149.95 | 134.95 |
| 1940660 | Power supply, 5VDC/1A | 9.49 | 8.49 |

★ Laser Products — Enter Web Code LAZ

★ Soldering Irons — Enter Web Code QAS

★ Rocker Switches — Enter Web Code VBU

Panel Mount Indicators & Lamps



Panel Mount Indicators (Incandescent, LED, Neon)

* Web Code: SOL

These bright indicator lights come equipped with quick and easy connections. Available in many different types for your specific needs.

- .187"/.250" tabs; clamp screw; stripped & tin wires termination
- Red, amber, yellow, green, blue or white
- 22mm (0.88") mounting hole
- Lens and hex nut: polycarbonate
- UL/CUL/TUV/CE approved
- Hex nut and panel seal mounting hardware
- Housing: PBT w/ 20% glass
- Diffuser: polyacetal



Fig. 1

Fig. 2

Fig. 3

| Part No. | Mfr. Part No. | Fig. | Voltage (V) | Color | Mounting Hole | Type | Termination | 1 | 10 | 100 |
|----------|----------------------|------|-------------|-----------------------------|----------------|--------------|-------------|--------|--------|--------|
| 2129457 | 3335-4-50-183-A-1001 | 1 | 14 | Red (temperature Indicator) | 0.375" x 1.38" | Incandescent | 0.250" tabs | \$.39 | \$.35 | \$.29 |
| 2126424 | KE12-4-03-01020 | 2 | 14 | Amber (translucent lens) | 0.63" | LED | 0.250" tabs | .99 | .89 | .79 |
| 2126408 | KE12-4-03-01050 | 2 | 14 | Blue (translucent lens) | 0.63" | LED | 0.250" tabs | .99 | .89 | .79 |
| 2129545 | 4416-1-20-010-1 | 3 | 250 | Red | 0.250" | LED | 9" wires | .49 | .39 | .35 |
| 2126512 | 2954-X-11-373-10 | 4 | 480 | Red | 0.50" | Neon | 15" wires | .49 | .39 | .35 |



Fig. 4

Neon Bulb

* Web Code: NOB

| Part No. | Mfr. Part No. | Fig. | Description | 1 | 10 | 100 |
|----------|----------------------|------|--|--------|--------|--------|
| 2129553 | 9950-X-00-00000-0002 | 5 | 125V Neon bulb with 46k resistor, 2" wires | \$.29 | \$.25 | \$.15 |

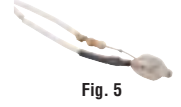


Fig. 5

LED Panel Mount Indicators

- Easy panel installation
- Panel/status/instrument indicators

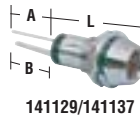
* Web Code: SOL

141111/141129/141137: Chrome housing

NEW
MARKED IN PINK



141111



141129/141137



637183

| Part No. | Cross Ref. No. | Mfr. | LED Size | Color | Dimensions (in.) | | | Mounting Hole | VI @ IF | Pricing | | |
|----------|-----------------------|------|----------|-------|------------------|-----|-----|---------------|--------------|---------|--------|--------|
| | | | | | | | | | | 1 | 10 | 100 |
| 141111 | L922SRD | JVP | T1 | Red | .56 | .34 | .25 | .23" | 2V @ 20mA | \$1.09 | \$.99 | \$.85 |
| 141129 | L913RD | JVP | T1 | Red | .56 | .39 | .32 | .24" | 2V @ 20mA | 1.25 | 1.15 | .99 |
| 141137 | L917RD | JVP | T1 3/4 | Red | .70 | .55 | .47 | .31" | 2V @ 20mA | 1.25 | 1.09 | .99 |
| 637183 | UT2U1G-H113-R801-W05 | JVP | T1 3/4 | Green | .55 | 5.5 | 5.5 | .24" | 12V @ 10mA | 1.09 | .99 | .89 |
| 2158936 | UT2U1W-H113-R801-1739 | LED | T1 3/4 | White | .55 | 5.5 | 5.5 | .24" | 12V @ 30mA | 1.09 | .99 | .89 |
| 2215427 | 11-2426B | LKG | T1 3/4 | Green | .66 | 6.0 | 6.0 | .25" | 12-14V range | 2.49 | 2.25 | 1.95 |
| 2230563 | XPG1LCWD01M12VW6 | JVP | 10mm | White | .83 | 6.0 | 6.0 | .55" | 14V @ 8.6mA | 3.95 | 3.49 | 2.95 |
| 2230571 | XPG1LCBD01D12VW6 | JVP | 10mm | Blue | .83 | 6.0 | 6.0 | .55" | 14V @ 8.6mA | 3.95 | 3.49 | 2.95 |
| 2230580 | XPG1LMD01D12VW6 | JVP | 10mm | Red | .83 | 6.0 | 6.0 | .55" | 14V @ 8.6mA | 3.95 | 3.49 | 2.95 |

† Has internal resistor to run 12V @ 10mA * Has 5.5" wire leads ‡ Additional panel mounting hardware, P/N 2182602 (pg 78)

12V Incandescent Panel Mount Lamps

- 215715: Solder terminals - 0.196" (5mm)

* Web Code: JBJ

| Part No. | Cross Ref. No. | Fig. | Color | Mounting Hole | Wire Length | 1 | 10 | 100 |
|----------|---------------------|------|-------|---------------|--------------|--------|--------|--------|
| 2181360 | NN792-12V-12CM-RED | 1 | Red | 9/32" (7mm) | 4.7" (120mm) | \$1.55 | \$1.39 | \$1.25 |
| 2158506 | F151-12G | 1 | Green | 9/32" (7mm) | Terminals | .79 | .69 | .59 |
| 2181378 | FNN792-12V-12CM-GRN | 1 | Green | 9/32" (7mm) | 4.7" (120mm) | 1.49 | 1.25 | 1.09 |
| 215715 | R9-71B-05-12V-R | 2 | Red | 5/8" (16mm) | Terminals | 2.25 | 1.95 | 1.79 |

§ Additional panel mounting hardware, P/N 2182688 (pg 78)



Fig. 1



Fig. 2



Panel Mount Indicators



2183269



2182910



2182928



2182995

| Panel Indicators | The panel mount indicator chart below shows a variety of lens and lamps to complete your lighting requirements. | | | | | | | |
|------------------------|---|---------------|---------------|---------------|-----------------|-----------------|------------------|---------------|
| | 2183269 | 2183437 | 2182881 | 2182872 | 2182910 | 2182899 | 2182928 | 2182995 |
| | \$1.95 | \$1.95 | \$1.95 | \$1.95 | \$1.95 | \$1.95 | \$.99 | \$.99 |
| Voltage for Indicators | 110-125VAC | 110-125VAC | 110-125VAC | 110-125VAC | 105-125 VAC/VDC | 210-250 VAC/VDC | 110-125VAC/30VDC | 1-28VDC |
| Lens | 2182952 | 2182952 | 2182864 | 2182864 | 2182864 | 2182864 | 2183621 | 2182987 |
| | 2182830 | 2182830 | 2182848 | 2182848 | 2182848 | 2182848 | | 2182979 |
| | | | 2182944 | 2182944 | 2182944 | 2182944 | | |
| | | | 2183445 | 2183445 | 2183445 | 2183445 | | |
| | | | 2183584 | 2183584 | 2183584 | 2183584 | | |
| 2182864 | \$.99 | \$.99 | \$.99 | \$.99 | \$.99 | \$.99 | \$.29 | \$.25 |
| Lamps | 2203303 | 2203303 | 209437 | 209437 | 2203291 | 2203291 | 392690 | 392690 |
| | | | 209402 | 209402 | | | 392681 | 392681 |
| | | | | | | | 392702 | 392702 |
| 2203291 | 1 10 | 1 10 | 1 10 | 1 10 | 1 10 | 1 10 | 1 10 | 1 10 |
| | \$1.49 \$1.25 | \$1.49 \$1.25 | \$.49 \$.45 | \$.49 \$.45 | \$.95 \$.85 | \$.95 \$.85 | \$1.95 \$1.75 | \$1.95 \$1.75 |

LED AND LED DISPLAY GRAB BAGS

Jameco ValuePro 18041

| Part No. | Description | Price |
|----------|---|--------|
| 18041 | 100 assorted LEDs (all colors) (T1 & T1 1/2 round and rectangular) | \$6.95 |
| 2226943 | 100 assorted LEDs (red only) | 4.95 |
| 2226951 | 100 assorted LEDs (green only) | 4.95 |
| 2226960 | 100 assorted LEDs (yellow only) | 4.95 |
| 135271 | 1800 assorted LEDs (all colors) #18041 | 59.95 |
| 2203311 | 100 assorted PCB housing colored LEDs (T1 & T1 1/2 single to multiple rt. angle LEDs) | 4.95 |
| 18201 | 50 assorted sizes of colored displays (7-seg, LCD, dot-matrix, bar graph) | 19.95 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
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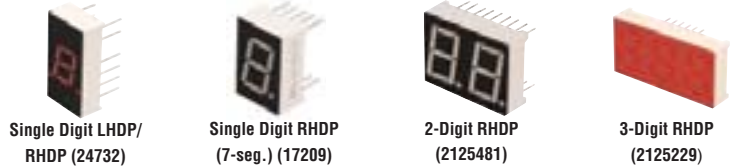
7 & 16-Segment LED Displays

Soldering:

- Soldering bath: not more than 5 sec. @ 260°C
- Soldering iron: not more than 3 sec. @ 300°C under 30W

* Web Code: PBW

NEW
MARKED IN PINK



Single Digit 7-Segment Numeric LED Displays

| Part No. | Manufacturer | Product No. | Character Height | Illuminated Color | Bus Polarity* | Pins/Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing | | |
|----------|-----------------|-------------------|------------------|-------------------|---------------|------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
| | | | | | | | | | | | 1 | 10 | 100 |
| 24732 | MCD | GNS-3011BH-11 | 0.30" | Red | CA | 14 | 1.9 @ 20 | 0.3 @ 20 | 697 | LHDP/RHDP | \$.89 | \$.79 | \$.69 |
| 878201 | Lite-On | LTS-312AHR | 0.30" | Hi-eff Red | CA | 14 | 2.0 @ 20 | 2000 @ 10 | 623 | LHDP/RHDP | .79 | .69 | .59 |
| 24782 | Ligitek | LSD3211-11 | 0.30" | Red | CC | 14 | 2.1 @ 20 | 2.5 @ 20 | 697 | LHDP/RHDP | .99 | .89 | .75 |
| 24740 | Ligitek | LSD3221-11 | 0.30" | Red | CA | 14 | 2.1 @ 20 | 2.5 @ 20 | 697 | LHDP/RHDP | .99 | .89 | .75 |
| 335011 | ValuePro | UA3041-12 | 0.30" | Orange | CA | 14 | 2.1 @ 20 | 3.3 @ 10 | 635 | RHDP | .39 | .35 | .31 |
| 2186099 | Hewlett Packard | 5082-7621 | 0.30" | Yellow | CA | 14 | 2.2 @ 20 | 8.3 @ 20 | 583 | RHDP | .99 | .89 | .79 |
| 2188895 | Hewlett Packard | HDSP-7301 | 0.30" | Red | CA | 10 | 1.6 @ 25 | 11 @ 20 | 640 | RHDP | .59 | .49 | .39 |
| 2005403 | Lite-On | LTS-313AG | 0.30" | Green | CC | 10 | 2.1 @ 20 | 2.0 @ 20 | 565 | RHDP | .69 | .59 | .49 |
| 1955714 | Lite-On | LTS-367R | 0.36" | Red | CC | 10 | 1.7 @ 20 | 0.5 @ 10 | 655 | RHDP | .59 | .49 | .39 |
| 2125245 | Vishay | TDSR3163-G | 0.40" | Red | CC | 10 | 1.6 @ 30 | 0.18 @ 30 | 660 | RHDP | .59 | .55 | .45 |
| 334800 | Lite-On | LTS-4710AP | 0.40" | Hi-eff Red | CA | 14 | 2.1 @ 20 | 0.8 @ 10 | 697 | RHDP | .79 | .69 | .59 |
| 2227938 | Lite-On | LTS-4301P | 0.40" | Bright Red | CC | 10 | 2.1 @ 20 | 0.8 @ 20 | 697 | RHDP | .79 | .69 | .59 |
| 2005411 | Lite-On | LTS-4980AHR | 0.40" | Hi-eff Red | CC | 14 | 2.1 @ 20 | 2.2 @ 10 | 635 | RHDP | .39 | .35 | .25 |
| 2227920 | Lite-On | LTS-4301JS | 0.40" | Yellow | CC | 10 | 2.1 @ 20 | 0.65 @ 20 | 588 | RHDP | .89 | .79 | .69 |
| 2227911 | Lite-On | LTS-4301G | 0.40" | Green | CC | 10 | 2.1 @ 20 | 2.2 @ 20 | 565 | RHDP | .79 | .69 | .59 |
| 2227882 | Lite-On | LTS-4301B | 0.40" | Blue | CC | 10 | 3.8 @ 20 | 3.6 @ 20 | 428 | RHDP | 2.95 | 2.59 | 2.29 |
| 17209 | MCD | GNS-5011BH-11 | 0.50" | Red | CA | 10 | 2.1 @ 20 | 0.9 @ 20 | 697 | RHDP | 1.09 | .99 | .89 |
| 17187 | Ligitek | LSD5051-11 | 0.50" | Red | CC | 10 | 2.1 @ 20 | 0.9 @ 20 | 697 | RHDP | 1.09 | .99 | .89 |
| 335090 | ValuePro | UA5651-11 | 0.56" | Red | CA | 10 | 2.1 @ 20 | 0.8 @ 10 | 700 | RHDP | 1.09 | .99 | .89 |
| 2203565 | Lite-On | LTS-5001AWC | 0.56" | Red AlGaAs | CA | 10 | 1.8 @ 20 | 0.7 @ 10 | 660 | RHDP | .69 | .59 | .49 |
| 2203581 | Lite-On | LTS-6660E | 0.56" | Orange Red | CC | 10 | 2.6 @ 20 | 2.4 @ 10 | 630 | RHDP | .59 | .49 | .45 |
| 334880 | ValuePro | UC5641-11-EWRNR | 0.56" | Orange | CC | 10 | 2.1 @ 20 | 3.3 @ 10 | 635 | RHDP | .69 | .59 | .49 |
| 790639 | Lite-On | LTS6460G | 0.56" | Green | CA | 10 | 2.1 @ 20 | 2.4 @ 10 | 569 | RHDP | .89 | .79 | .69 |
| 334862 | ValuePro | UC5621-11 | 0.56" | Green | CC | 10 | 2.1 @ 20 | 2.9 @ 10 | 567 | RHDP | 1.09 | .99 | .89 |
| 2230598 | SunLED | XDCBD14A | 0.56" | Blue | CA | 10 | 3.0 @ 10 | 2.3 @ 10 | 460 | LHDP/RHDP | 1.75 | 1.59 | 1.35 |
| 1955829 | Lite-On | LTS-3403AP | 0.80" | Red Gap | CC | 18 | 2.1 @ 20 | 0.95 @ 10 | 697 | LHDP/RHDP | .89 | .79 | .69 |
| 18753 | Ligitek | LSD8151-10 | 0.80" | Red | CC | 16 | 2.1 @ 20 | 1.0 @ 20 | 697 | LHDP/RHDP | 1.09 | .99 | .89 |
| 2188879 | Hewlett Packard | HDSP-3401 | 0.80" | Red | CA | 18 | 1.6 @ 20 | 12 @ 50 | 655 | RHDP | 1.09 | .99 | .89 |
| 2186110 | Hewlett Packard | HDSP-4200 | 0.80" | Yellow | CA | 18 | 2.6 @ 100 | 3.4 @ 20 | 586 | LHDP | 1.09 | .99 | .89 |
| 2227364 | Ever Light | 2326SURWA/S530-A3 | 2.24" | Brilliant Red | CA | 10 | 2.0 @ 20 | 34 @ 10 | 632 | RHDP | 2.95 | 2.59 | 1.95 |
| 97199 | Ligitek | LSD23265-10 | 2.24" | Red | CA | 10 | 6.8 @ 20 | 30 @ 20 | 660 | RHDP | 4.49 | 3.95 | 3.59 |
| 2202061 | SunLED | XDMR57C-A | 2.24" | Red | CC | 10 | 3.6 @ 10 | 189 @ 10 | 660 | RHDP | 3.95 | 3.59 | 3.29 |
| 2202079 | SunLED | XDMR100C-A | 4.00" | Red | CC | 10 | 3.6 @ 10 | 110 @ 10 | 660 | RHDP | 6.95 | 5.95 | 4.95 |

2-Digit 7-Segment Numeric LED Displays

| Part No. | Manufacturer | Product No. | Character Height | Illuminated Color | Bus Polarity* | Pins/Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing | | |
|----------|-----------------|-------------|------------------|-------------------|---------------|------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
| | | | | | | | | | | | 1 | 10 | 100 |
| 2227541 | Lite-On | LTD-482EC | 0.40" | Red Orange | CA | 16 | 2.0 @ 20 | 1.3 @ 20 | 630 | RHDP | \$1.25 | \$1.09 | \$.99 |
| 24715 | Ligitek | LDD5121-20 | 0.56" | Red | CA | 18 | 2.1 @ 20 | 0.8 @ 20 | 697 | RHDP | 1.59 | 1.39 | 1.19 |
| 2125481 | China Semi | SD-525R | 0.56" | Red | CC | 18 | 1.7 @ 20 | 1.0 @ 20 | 655 | RHDP | .69 | .59 | .49 |
| 24723 | Ligitek | LDD5111-11 | 0.56" | Red | CC | 18 | 2.1 @ 20 | 0.8 @ 20 | 697 | RHDP | 1.59 | 1.39 | 1.19 |
| 1551509 | Hewlett Packard | HDSP-5523 | 0.56" | Hi-eff Red | CC | 18 | 2.1 @ 20 | 2.8 @ 20 | 635 | RHDP | 1.49 | 1.25 | 1.09 |
| 2230811 | SunLED | XDUR14C2 | 0.56" | Red | CC | 18 | 1.9 @ 10 | 7.9 @ 10 | 627 | RHDP | 2.95 | 2.59 | 2.25 |
| 2188887 | Hewlett Packard | HDSP-5721 | 0.56" | Yellow | CA | 18 | 2.1 @ 20 | 1.8 @ 10 | 583 | RHDP | .89 | .79 | .69 |
| 1551568 | Hewlett Packard | HDSP-5621 | 0.56" | Green | CA | 18 | 2.1 @ 10 | 2.5 @ 10 | 566 | RHDP | 1.75 | 1.49 | 1.25 |

3-Digit 7-Segment Numeric LED Displays

| Part No. | Manufacturer | Product No. | Character Height | Illuminated Color | Bus Polarity* | Pins/Leads | Typical Vf @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing | | |
|----------|-------------------|----------------|------------------|-------------------|---------------|------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
| | | | | | | | | | | | 1 | 10 | 100 |
| 335054 | Lite-On | LTC-4624JR | 0.40" | Super Red | CA | 16 | 2.0 @ 20 | 0.65 @ 20 | 639 | RHDP | \$1.49 | \$1.25 | \$1.09 |
| 335055 | ValuePro | UN4043-13 EWRS | 0.40" | Orange | CA | 12 | 2.1 @ 20 | 3.3 @ 10 | 635 | RHDP | .89 | .79 | .69 |
| 2227962 | Lite-On | LTC-4724JF | 0.40" | Yellow Orange | CC | 15 | 2.0 @ 20 | 0.65 @ 20 | 611 | RHDP | 1.95 | 1.75 | 1.49 |
| 2227954 | Lite-On | LTC-4724B | 0.40" | Blue | CC | 15 | 3.8 @ 20 | 3.6 @ 20 | 428 | RHDP | 2.95 | 2.59 | 2.29 |
| 2125229 | Arndt Electronics | LN5643R-11 | 0.56" | Orange | CA | 12 | 2.1 @ 20 | 4.5 @ 10 | 630 | RHDP | 1.25 | 1.09 | .95 |
| 308224 | ValuePro | LM5643R-11RRRN | 0.56" | Orange | CC | 12 | 2.1 @ 20 | 7.4 @ 20 | 630 | RHDP | 1.49 | 1.25 | 1.09 |
| 790410 | Lite-On | LTM-8522HR | 0.56" | Hi-eff Red | †† | 18 | 12.0 @ 8.5 | 2.4 @ 0.4 | 635 | RHDP | 3.95 | 3.49 | 2.95 |
| 225963 | ValuePro | KW3-562A2B | 0.56" | Green | CA | 28 | 2.2 @ 20 | 15 @ 20 | 568 | RHDP | 1.95 | 1.75 | 1.49 |

* CA-Common Anode/CC-Common Cathode # LHDP-Left Hand Decimal Point / RHDP-Right Hand Decimal Point †† Built-in M5450 MOS IC chip (serial data input)

LED Displays, Bar Graph Arrays & Dot Matrix Displays

LITEON 7 & 16-Segment LED Displays (Continued)

4-Digit 7-Segment Numeric LED Displays

4-Digit RHDP (7-seg.)
(2006836)

2-Digit RHDP (16-seg.)
(2005382)

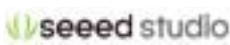
★ Web Code: PBW

| Part No. | Manufacturer | Product No. | Character Height | Illuminated Color | Bus Polarity* | Pins/Leads | Typical VI @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing | | |
|----------|-------------------|----------------------|------------------|-------------------|---------------|------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
| | | | | | | | | | | | 1 | 10 | 100 |
| 2227989 | Lite-On | LTC-2623WC | 0.28" | Red | CA | 16 | 1.7 @ 5 | 3.1 @ 5 | 660 | RHDP | \$2.49 | \$2.25 | \$1.95 |
| 2227971 | Lite-On | LTC-2623JD | 0.28" | Hi-eff. Red | CA | 16 | 2.1 @ 20 | 0.6 @ 20 | 656 | RHDP | 2.95 | 2.59 | 2.29 |
| 2203557 | Lite-On | LTG-0520KR | 0.36" | Red | CC | 16 | 2.0 @ 20 | 4.9 @ 10 | 639 | RHDP | 1.49 | 1.35 | 1.09 |
| 2228105 | Para | A-394E | 0.40" | Hi-eff. Red | CA | 16 (.70"L) | 2.8 @ 20 | 1.8 @ 10 | 635 | RHDP | 1.95 | 1.75 | 1.49 |
| 2230125 | Everlight | ELF-416SYGWA/S530-E3 | 0.40" | Yellow/Green | CA | 16 (.70"L) | 2.0 @ 20 | 8.9 @ 10 | 575 | RHDP | 1.75 | 1.59 | 1.35 |
| 2045683 | Lite-On | LTC-4627WC | 0.40" | Red | CA | 16 | 1.7 @ 5 | 3.4 @ 5 | 660 | RHDP | 2.49 | 2.25 | 1.95 |
| 2227946 | Lite-On | LTC-4627JS | 0.40" | Yellow | CA | 16 | 2.1 @ 20 | 0.65 @ 20 | 588 | RHDP | 2.49 | 2.25 | 1.95 |
| 2006836 | Lite-On | LFD5221-20/A-PF | 0.56" | Red | CA | 12 | 2.1 @ 20 | 1.0 @ 10 | 697 | RHDP | 1.75 | 1.49 | 1.25 |
| 2218062 | Arndt Electronics | MSD-0566GWY | 0.56" | Green | CA | 12 | 2.1 @ 20 | 2.2 @ 10 | 568 | RHDP | 2.49 | 2.25 | 1.95 |
| 335194 | ValuePro | UM5624-11-EWRS | 0.56" | Green | CC | 12 | 2.1 @ 20 | 2.9 @ 10 | 567 | RHDP | 2.95 | 2.49 | 2.19 |

2-Digit 16-Segment Alphanumeric LED Displays

| Part No. | Manufacturer | Product No. | Character Height | Illuminated Color | Bus Polarity* | Pins/Leads | Typical VI @ If (mA) | Typical mcd @ mA | Wavelength nm | Decimal Point # | Pricing | | |
|----------|--------------|-------------|------------------|-------------------|---------------|------------|----------------------|------------------|---------------|-----------------|---------|--------|--------|
| | | | | | | | | | | | 1 | 10 | 100 |
| 790452 | Lite-On | LTP-3862JD | 0.30" | Hyper Red | CA | 20 | 2.1 @ 20 | 0.9 @ 10 | 650 | RHDP | \$1.95 | \$1.75 | \$1.49 |
| 2005382 | Lite-On | LTP-4323P | 0.40" | Bright Red | CC | 20 | 2.1 @ 20 | 0.75 @ 10 | 697 | RHDP | 1.95 | 1.75 | 1.49 |
| 2203549 | Lite-On | LTP-4823G | 0.40" | Green | CA | 20 | 2.1 @ 20 | 2.2 @ 10 | 565 | RHDP | 1.75 | 1.49 | 1.25 |
| 2227891 | Lite-On | LTP-3786E | 0.54" | Red Orange | CA | 18 | 2.0 @ 20 | 2.3 @ 10 | 630 | RHDP | 2.95 | 2.49 | 1.75 |

* CA-Common Anode/CC-Common Cathode # RHDP-Right Hand Decimal Point



LITEON LED Bar Graph Arrays (10 Elements)

2227356

697477

790188

★ Web Code: LBW

| Part No. | Manufacturer | Product No. | Character Height | Illuminated Color | Number of Elements | Pins/ Leads | Typical VI @ If (mA) | Typical mcd @ mA | Wavelength nm | Pricing | | |
|----------|-----------------|-----------------|------------------|--------------------|--------------------|-------------|----------------------|------------------|---------------|---------|--------|--------|
| | | | | | | | | | | 1 | 10 | 100 |
| 2227356 | Lite-On | LTA-10102KR | 0.20" | Super Red | 10 | 20 | 2.6 @ 25 | 0.67 @ 25 | 639 | \$.69 | \$.59 | \$.49 |
| 697477 | Lite-On | LTA-1000HR | 0.20" | Hi-eff. Red | 10 | 20 | 2.0 @ 20 | 2.0 @ 10 | 635 | 1.39 | 1.25 | 1.09 |
| 334529 | ValuePro | UL10000-HR-RRAK | 0.20" | Red | 10 | 20 | 3.9 @ 20 | 1.6 @ 10 | 635 | 1.39 | 1.25 | 1.09 |
| 697469 | Lite-On | LTA-1000G | 0.20" | Green | 10 | 20 | 2.1 @ 20 | 2.0 @ 10 | 565 | 1.39 | 1.25 | 1.09 |
| 2217596 | Seed Studio | LED207A6B | 0.20" | Red, Yellow, Green | 10 | 20 | 5.0 @ 20 | 20/25/20 @ 20 | 635/585/565 | 1.49 | 1.35 | 1.19 |
| 2230619 | SunLED | XGCBDX10D | 0.20" | Blue | 10 | 20 | 3.0 @ 10 | 9.4 @ 10 | 460 | 2.49 | 2.25 | 1.95 |
| 2188908 | Hewlett Packard | HLMP-2655 | 0.35" | Hi-eff. Red | 4 | 8 | 1.8 @ 25 | 45 @ 2 | 626 | .49 | .39 | .29 |
| 790188 | Lite-On | LTL-2620HR | 0.35" | Hi-eff. Red | 4 | 16 | 2.0 @ 20 | 4.2 @ 10 | 635 | .25 | .19 | .15 |

LITEON LED Dot Matrix Displays (5 x 7, 5 x 8 & 8 x 8 Arrays)

5 x 7
Dot Matrix

5 x 8
Dot Matrix

8 x 8
Dot Matrix

★ Web Code: HAV

| Part No. | Manufacturer | Product No. | Character Height | Illuminated Color | Array Polarity* | Pins/ Leads | Typical Vi @ If (mA) | Typical mcd @ mA | Wavelength nm | Pricing | | |
|----------|--------------|---------------|------------------|--------------------|-----------------|-------------|----------------------|------------------|---------------|---------|--------|--------|
| | | | | | | | | | | 1 | 10 | 100 |
| 2005497 | Lite-On | LTP-757G | 0.7" | Green | 5 x 7 CC/AR | 12 | 2.1 @ 20 | 2.0 @ 80 | 565 | \$2.95 | \$2.59 | \$1.95 |
| 2005518 | Lite-On | LTP-1557AKA | 1.2" | AlInGaP Red Orange | 5 x 7 CC/AR | 14 | 2.05 @ 20 | 3.8 @ 80 | 621 | 1.49 | 1.25 | 1.09 |
| 1955159 | Lite-On | LTP-2757AA | 2.0" | Green/Red Orange | 5 x 7 CC/AR | 28 | 2.1/2.0 @ 20 | 4.8 @ 80 | 630/565 | 1.29 | 1.15 | .99 |
| 2186048 | Lite-On | LTP-2558AA-RA | 2.3" | Red Orange/Green | 5 x 8 CC/AR | 28 | 2.6 @ 20 | 4.8 @ 80 | 565/630 | 1.49 | 1.35 | 1.19 |
| 2132349 | ValuePro | LD788BS-SS22 | 0.8" | Hi-efficiency Red | 8 x 8 CC/AR | 16 | 2.0 @ 10 | 25.9 @ 10 | 632 | 3.95 | 3.59 | 2.95 |

* AR-Anode Row / CC-Cathode Column



LED Dot Matrix with Decoder Driver (4 x 7 Hexadecimal Array)

★ Web Code: HAV

| Part No. | Manufacturer | Mfr. Part No. | Character Height | Illuminated Color | Supply Voltage (V) | No. of Characters | Array Polarity | Pins/Leads | Typical mcd | Wavelength nm | Pricing | | |
|----------|-------------------|---------------|------------------|-------------------|--------------------|-------------------|----------------|------------|-------------|---------------|---------|---------|---------|
| | | | | | | | | | | | 1 | 10 | 100 |
| 32951 | Texas Instruments | TIL311 | 0.27" | Red | 5 | 1 | 4 x 7 Hex | 11 | 0.1 | 660 | \$24.95 | \$22.49 | \$19.95 |

Scott Edwards Electronics, Inc.

Organic LED (OLED) Serial Displays



★ Web Code: OSD

High brightness, high contrast, brilliant display. This display operates in wide temperature ranges, consumes low power and has EEPROM storage. Choose from four font sizes, from regular 16 x 2 to huge 8 x 1 characters.

| Part No. | Mfr. | Mfr. Part No. | Characters x Lines | Input Data | Input Voltage (VDC @ mA) | Letters/Backlight | Module Size (in.) | Display Size (in.) | 1 | 5 | 25 |
|----------|---------------|---------------|--------------------|------------|---|-------------------|-------------------|--------------------|---------|---------|---------|
| 2136382 | Scott Edwards | GLO-216Y | 16 x 2 or 8 x 1 | 9600 | 3.3 - 5.3 @ 40 (50mA max.) | Yellow/Black | 3.2 x 1.4 x 0.2 | 2.6 x 0.6 | \$49.95 | \$44.95 | \$39.95 |
| 2157407 | Sabernetics | MINI-I2C OLED | 96 x 16 pixels | 400kbit/s | 5 @ 27.5 | Light Blue/Black | 1.2 x 0.6 x 0.2 | 0.84 x 0.14 | 15.95 | 14.95 | 14.49 |
| 2211952 | Adafruit | 326 | 128 x 64 | 15ns | V _{DD} =2.8V@180µA - logic; V _{CC} =9V@12.3mA - OEL | White | 1.1 x 0.76 x 0.06 | 0.86 x 0.43 | 19.95 | 18.95 | 16.95 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Serial, Parallel & TFT LCD Displays

| 3 LEVELS OF SAVINGS | | |
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| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



Serial/Parallel LCD Displays

- Supply voltage: +5V
- Arduino-compatible

* Web Code: DFD

2160374



2160358



| Part No. | Mfr. Part No. | Characters/Resolution | Communication | Color Backlight-Lettering | Controller | Size (L" x W") | Pricing | |
|----------|---------------|------------------------|----------------------|---------------------------|------------|----------------|---------|--------|
| | | | | | | | 1 | 5 |
| 2160374 | FIT0127 | 16 characters x 2 rows | Parallel | Blue-White | KS 0066 | 3.1" x 1.4" | \$10.95 | \$9.95 |
| 2160358 | DFR0063 | 16 characters x 2 rows | I ² C/TWI | Blue-White | HD44780U | 3.2" x 1.4" | 21.95 | 19.95 |



Serial LCD Displays

Scott Edwards Electronics, Inc.

* Web Code: QAW

- For detailed specification sheets, please visit www.Jameco.com.

- One-year warranty



2188967



2135638



2118539



158166



2118686

| Part No. | Manufacturer | Mfr. Part No. | Characters x Lines | Input Data | Input Voltage (V @ mA) | Letters - Backlight | Notes† | Module Size (W" x H" x D") | Display Size (W" x H") | Pricing | |
|----------|---------------|--------------------------|--------------------|----------------|------------------------|----------------------|--------|----------------------------|------------------------|---------|---------|
| | | | | | | | | | | 1 | 5 |
| 2188967 | Newhaven | NHD-0216K3Z-NSW-BBW-V3 | 16 x 2 | 300-115200 | 4.7-5.5 @ 34 | White-Blue | — | 3.1 x 1.4 x 0.5 | 2.8 x 1.0 | \$19.95 | \$18.95 |
| 2135638 | Arndt | LK162-12-WB-C166 | 16 x 2 | 1200-19200 | 5.0 @ 9 | White-Blue | 1,3,5 | 3.2 x 1.5 x 0.8 | 2.5 x 0.7 | 16.95 | 15.95 |
| 2118539 | Newhaven | C0220BIZ-FS(RGB)-FBW-3VM | 20 x 2 | 9600 (default) | 2.7-3.5 @ 1 | Black-Red/Green/Blue | — | 3.0 x 1.1 x 0.3 | 2.4 x 0.6 | 11.95 | 10.95 |
| 158166 | Scott Edwards | SGX-120L | 20 x 4 w/ graphics | 2400 or 9600 | 4.8-5.5 @ 15 | Yellow-None | 1,2,4 | 3.1 x 1.9 x 0.8 | 2.6 x 1.1 | 68.95 | 62.95 |
| 2118686 | Newhaven | NHD-0420D3Z-FL-GBW | 20 x 4 | 9600 (default) | 5.0 @ 245 | Blue-Yellow/Green | 1,6 | 3.9 x 2.4 x 0.5 | 3.0 x 1.0 | 20.95 | 19.95 |

- For a power supply, Jameco recommends P/N 1953612, pg 92
- Includes instruction codes for character generation, cursor control, printing, etc. (Examples for Stamps in PBASIC included)
- Connect 16 modules using the same two wire interface
- EEPROM stores text font, settings and text screen
- Backlight control, bar graphs, large digits, multiple displays, software contrast control, auto line wrapping and auto scroll feature
- 122 x 32 pixel graphic display, text display using built-in or user supplied fonts, adjustable contrast, backlighting & keypad interface



Parallel LCD Displays



* Web Code: GCG



2138791



2118619



2205368



210761



2118635



2179331

| Part No. | Mfr. | Mfr. Part No. | Characters x Lines | Character Font | Input Data | Input Voltage (V @ mA) | Letters-Backlight | Notes† | Module Size (W" x H" x D") | Display Size (W" x H") | Pricing | | |
|----------|-----------|-----------------------|--------------------|----------------|----------------|------------------------|--------------------|--------|----------------------------|------------------------|---------|--------|--------|
| | | | | | | | | | | | 1 | 5 | 25 |
| 2138791 | P-Tec | PC1601J-YLFYDLX | 16 x 1 | 5 x 8 | 8-bit | 5.0 @ 2.0 | Black-Yellow/Green | — | 4.8 x 1.7 x 0.3 | 3.9 x 0.9 | \$.99 | \$.75 | \$.59 |
| 2167293 | Hantronix | HDM16216H-B-S90S | 16 x 2 | 5 x 7 | 8-bit | 5.0 @ 2.2 | Gray-STN-None | 5 | 3.3 x 1.7 x 0.4 | 2.4 x 0.6 | 3.95 | 3.49 | 2.95 |
| 2211071 | Microtips | MTC-S16204XFYHSAY-08 | 16 x 2 | 5 x 7 | 4-bit | 5.5 @ 3.0 | Black-Yellow/Green | — | 3.3 x 1.7 x 0.5 | 2.5 x 0.7 | 6.95 | 5.95 | 4.95 |
| 2118619 | Newhaven | NHD-021682-FL-YBW | 16 x 2 | 5 x 8 | 4-bit or 8-bit | 5.0 @ 1.5 | Blue-Yellow/Green | 2,3 | 3.3 x 1.7 x 0.5 | 2.5 x 0.6 | 9.95 | 8.95 | 7.95 |
| 2118580 | Newhaven | NHD-02161Z-FL-YBW | 16 x 2 | 5 x 8 | 4-bit or 8-bit | 5.0 @ 1.5 | Blue-Yellow/Green | 3,4 | 3.2 x 1.4 x 0.5 | 2.5 x 0.6 | 10.49 | 9.25 | 7.95 |
| 2118598 | Newhaven | NHD-0216K1Z-NSW-BBW-L | 16 x 2 | 5 x 8 | 4-bit or 8-bit | 5.0 @ 1.5 | White-Blue | 2,3 | 3.2 x 1.4 x 0.5 | 2.5 x 0.6 | 9.95 | 8.95 | 7.95 |
| 2231030 | Lumex | LCM-S01602DTR/M | 16 x 2 | 5 x 8 | 4-bit or 8-bit | 5.0 @ 3.0 | Gray-None | — | 2.6 x 1.0 x 0.3 | 2.0 x 0.6 | 8.95 | 7.95 | 6.95 |
| 2138783 | P-Tec | PC1602J-YLFYDLX | 16 x 2 | 5 x 8 | 8-bit | 5.0 @ 2.0 | Black-Yellow/Green | — | 4.8 x 1.7 x 0.3 | 3.9 x 0.9 | 3.95 | 3.49 | 2.95 |
| 2205368 | Arndt | AC-162E | 16 x 2 | 5 x 8 | 8-bit | 5.0 @ 2.0 | Black-Yellow/Green | — | 4.8 x 1.7 x 0.6 | 3.7 x 0.8 | 1.95 | 1.49 | .99 |
| 2173159 | Vikay | 2035STLDYGTN | 16 x 2 | 5 x 8 | 4-bit or 8-bit | 5.0 @ 1.0 | Blue-Yellow/Green | — | 3.1 x 1.4 x 0.5 | 2.4 x 0.6 | 2.95 | 2.49 | 1.95 |
| 210761 | ValuePro | UC-16401 (Samsung) | 16 x 4 | 5 x 8 | 4-bit or 8-bit | 6.5 @ 2.2 | Black-None | 1,5 | 3.4 x 2.4 x 0.3 | 2.4 x 1.0 | 8.95 | 7.95 | 6.95 |
| 2155372 | Arndt | HC20216NYU-LYVO | 20 x 2 | 5 x 8 | 8-bit | 5.0 @ 2.0 | Black-Yellow/Green | 6 | 5.7 x 1.7 x 0.6 | 4.8 x 0.9 | 3.95 | 3.49 | 2.95 |
| 2118635 | Newhaven | NHD-0220DZ-FL-YBW | 20 x 2 | 5 x 8 | 4-bit or 8-bit | 5.0 @ 1.5 | Blue-Yellow/Green | 2,3 | 4.6 x 1.5 x 0.4 | 3.3 x 0.7 | 14.49 | 13.49 | 11.95 |
| 2158207 | Tianma | TM204JAA7 | 20 x 4 | 5 x 8 | 8-bit | 5.0 @ 1.4 | Blue-Black/White | — | 3.0 x 1.8 x 0.4 | 2.3 x 0.0 | 6.95 | 6.25 | 5.95 |
| 2179340 | Vikay | 2240STGYBN | 40 x 2 | 5 x 8 | 4-bit or 8-bit | 5.0 @ 2.5 | Grey-None | — | 7.1 x 1.3 x 0.5 | 6.4 x 1.1 | 6.95 | 6.25 | 5.95 |
| 2179331 | Vikay | 2440STLDYGTN | 40 x 4 | 5 x 8 | 4-bit or 8-bit | 5.0 @ 2.5 | Black-Yellow/Green | — | 7.5 x 2.1 x 0.5 | 6.6 x 1.6 | 7.95 | 6.95 | 6.25 |

- Recommended power supply P/N NM, pg NM
- Recommended power supply P/N 252701, pg 91
- Controller SPLC780D or equivalent
- Controller SPLC780D-01 or equivalent
- Control LSI HD44780 & column driver MSM5259 or equivalents
- Controller SGA006



Color 4.3" TFT Touch Display Module and Arduino Shield

- 480xRGBx272 resolution, up to 262K colors
- Sunlight readable
- PWM backlight control
- Utilizes the FTDI FT800 embedded video engine
- Onboard audio power amplifier
- MicroSD card reader (card not included)
- Built-in logic level shifting
- Assembled with NHD-4.3-480272EF-ASXN#-T
- 4-wire resistive touch panel

NEW MARKED IN PINK



| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------------|---------|---------|
| 2244279 | NHD-4.3RTP-SHIELD-N | \$99.95 | \$94.95 |



TFT Touch Display

2.8" USB Touch Display Module

- Touchscreen-resistive single point
- Color depth: 16bpp
- USB 2.0 with micro-USB connection
- Supports Raspberry Pi, pcDuino and Cubieboard
- Easy to use, zero configuration
- 320 x 240 resolution with 65,536 color
- USB communication with up to 100fps refresh frequency
- USB connectivity, no HDMI or VGA port needed
- Open source driver for Linux



| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|-------------------------------|---------|---------|
| 2213253 | DFR0275 | 2.8" screen, 320 x 240 pixels | \$45.95 | \$43.95 |

Component Cabinet Kits

JAMECO ValuePro

Most Popular Components with Extra Spaces for Expansion

- Each kit includes drawer component cabinet (319600) and 20 plastic dividers (319611)
- Each kit has the most popular components in its category
- Each kit is designed for your specific expansion
- Includes identification labels for each drawer, with reorder numbers to replenish stock and blank adhesive labels for empty drawers
- Free standing or wall mountable cabinet
- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- 20 clear plastic drawers (319601) and 20 dividers (319611)
- Cabinet: ABS-black (P/N 319600 see pg 132)

- Weight of kits: 4.6 to 6.4 lbs.
- Drawer size: 5.5"L x 2.7"W x 1.5"H

20-drawer
component cabinet
with every kit!

★ Web Code: CKS



81841 (Capacitor Kit)

Spacers & Electronic Hardware Kit

Includes 2700 pcs. (27 Types) Spacer, Hex Nuts
Flat, Tooth & Lock Washers and Slotted PH Screws

| 100 each | 100 each | 100 each | 100 each | 100 each | 100 each |
|----------|----------|----------|----------------|------------|-----------------|
| Spacers | Hex Nuts | Flat | Internal Tooth | Split Lock | PH Machine |
| — | 2-56 | #2 | #2 | #2 | 2-56 x 1/4, 1/2 |
| 4-40 | 4-40 | #4 | #4 | #4 | 4-40 x 1/4, 1/2 |
| 6-32 | 6-32 | #6 | #6 | #6 | 6-32 x 1/4, 1/2 |
| 8-32 | 8-32 | #8 | #8 | #8 | 8-32 x 1/4, 1/2 |

108433 2700 pcs. Electronic Hardware kit .. \$79.95 \$71.95

Monolithic Ceramic Capacitor Kit

Includes 280 pcs. (10 Types) 50V ±20% Monolithic Ceramic Caps.

| 100 each | 10 each | 10 each | 10 each | 10 each |
|----------|---------|---------|---------|---------|
| .01µF | 22pF | .001µF | .22µF | .47µF |
| .1µF | 100pF | .047µF | .33µF | 1µF |

171475 280 pcs. Monolithic Cap. kit \$34.95 \$31.95

171483 Refill for 171475 (280 pcs.) 19.95 17.95

Radial Electrolytic Capacitor Kit

Includes 240 pcs. (15 Values) Radial Electrolytic Capacitors

| 20 each | 20 each | 20 each | 10 each | 10 each |
|------------|-------------|-------------|-------------|--------------|
| 1µF @ 50V | 3.3µF @ 50V | 22µF @ 50V | 100µF @ 50V | 1000µF @ 16V |
| 1µF @ 100V | 4.7µF @ 50V | 47µF @ 50V | 220µF @ 25V | 2200µF @ 25V |
| 2µF @ 50V | 10µF @ 50V | 100µF @ 25V | 470µF @ 25V | 3300µF @ 25V |

81867 240 pcs. Radial Capacitor kit \$44.95 \$39.95

130331 Refill for 81867 (240 pcs.) 29.95 24.95

Axial Capacitor Kit

Includes 140 pcs. (10 Values) ±20% Axial Electrolytic Capacitors

| 20 each | 20 each | 10 each | 10 each | 10 each |
|-------------|-------------|-------------|-------------|--------------|
| 1µF @ 50V | 4.7µF @ 50V | 47µF @ 50V | 220µF @ 50V | 1000µF @ 25V |
| 2.2µF @ 50V | 10µF @ 50V | 100µF @ 50V | 470µF @ 50V | 2200µF @ 16V |

81875 140 pcs. Axial Capacitor kit \$44.95 \$39.95

130340 Refill for 81875 (140 pcs.) 29.95 26.95

Ceramic Disc Capacitor Kit

Includes 520 pcs. (10 Values) 50V Ceramic Disc Capacitors

| 100 each | 100 each | 20 each | 20 each | 20 each |
|----------|----------|---------|---------|---------|
| .01µF | .047µF | 10pF | 47pF | 270pF |
| .022µF | .1µF | 22pF | 100pF | .001µF |

81859 520 pcs. Ceramic Capacitor kit \$39.95 \$34.95

130232 Refill for 81859 (520 pcs.) 24.95 22.49

Mylar Capacitor Kit

Includes 280 pcs. (10 Values) 100V ±10% Mylar Capacitors

| 100 each | 10 each | 10 each | 10 each | 10 each |
|----------|---------|---------|---------|---------|
| .01µF | .001µF | .022µF | .047µF | .47µF |
| .1µF | .0068µF | .033µF | .22µF | 1µF |

81883 280 pcs. Mylar Capacitor kit \$39.95 \$34.95

130358 Refill for 81883 (280 pcs.) 24.95 22.49

Dipped Tantalum Capacitor Kit

Includes 150 pcs. (15 Values) ±20% Dipped Tantalum Capacitors

| 10 each | 10 each | 10 each | 10 each | 10 each |
|-------------|-------------|-------------|------------|------------|
| .1µF @ 35V | 1µF @ 25V | 3.3µF @ 25V | 10µF @ 16V | 22µF @ 16V |
| .22µF @ 35V | 1µF @ 16V | 4.7µF @ 35V | 10µF @ 35V | 33µF @ 25V |
| .47µF @ 25V | 2.2µF @ 16V | 6.8µF @ 35V | 15µF @ 25V | 47µF @ 25V |

81841 150 pcs. Tantalum Capacitor kit .. \$69.95 \$62.95

130260 Refill for 81841 (150 pcs.) 54.95 49.95

7400 Series IC Kit

Includes 350 pcs. (30 Types) 7400 (TTL) Integrated Circuits

| 20 each | 10 each | 10 each | 10 each | 10 each | 10 each |
|---------|---------|---------|---------|---------|---------|
| 7400 | 7402 | 7416 | 7432 | 74121 | 74157 |
| 7404 | 7405 | 7417 | 7438 | 74123 | 74160 |
| 7406 | 7408 | 7420 | 7447 | 74132 | 74174 |
| 7407 | 7410 | 7427 | 7485 | 74151 | 74175 |
| 7474 | 7414 | 7430 | 74107 | 74153 | 74279 |

Part No. Description 1 5
84953 350 pcs. 7400 series IC kit \$219.95 \$199.95

74LS00 Series IC Kit

Includes 420 pcs. (35 Types) 74LS00 (TTL) Integrated Circuits

| 20 each | 10 each | 10 each | 10 each | 10 each |
|---------|---------|---------|---------|---------|
| 74LS00 | 74LS05 | 74LS73 | 74LS125 | 74LS193 |
| 74LS02 | 74LS10 | 74LS75 | 74LS139 | 74LS240 |
| 74LS04 | 74LS11 | 74LS85 | 74LS151 | 74LS244 |
| 74LS08 | 74LS14 | 74LS86 | 74LS155 | 74LS245 |
| 74LS32 | 74LS20 | 74LS90 | 74LS157 | 74LS273 |
| 74LS74 | 74LS30 | 74LS93 | 74LS174 | 74LS373 |
| 74LS138 | 74LS47 | 74LS123 | 74LS175 | 74LS374 |

84961 420 pcs. 74LS series IC kit \$169.95 \$153.95

130391 Refill for 84961 (420 pcs.) 154.95 139.95

CD4000 Series (CMOS) IC Kit

Includes 300 pcs. (25 Types) CD 4000 Series Integrated Circuits

| 20 each | 10 each | 10 each | 10 each | 10 each |
|---------|---------|---------|---------|---------|
| CD4001 | CD4015 | CD4024 | CD4051 | CD4093 |
| CD4011 | CD4016 | CD4027 | CD4069 | CD4511 |
| CD4013 | CD4017 | CD4040 | CD4070 | CD4538 |
| CD4049 | CD4020 | CD4046 | CD4071 | CD4543 |
| CD4066 | CD4023 | CD4050 | CD4081 | CD4584 |

84970 300 pcs. CD 4000 series IC kit .. \$89.95 \$79.95

130403 Refill for 84970 (300 pcs.) 74.95 67.95

Linear IC Kit

Includes 480 pcs. (40 Types)

| 20 each | 10 each | 10 each | 10 each | 10 each |
|---------|-----------|----------|-----------|----------|
| LM317T | TL072CP | LM337T | LF412CN | U1N2803A |
| LM324N | TL074CN | LF353N | LMC555CN | NE5532N |
| LM339N | TL082CP | LF356N | LM556N | 7808T |
| LM741CN | TL084CN | LM358N | LM723CN | 78L12CZ |
| LM555CN | MAX232CPE | LM386N-1 | LM1458N | 7815T |
| 7805T | LM301N | LM386N-3 | DS1488N | 7905T |
| 78L05CZ | LM308N | LM393N | DS1489N | 7912CT |
| 7812T | LM311N | LF411CN | U1N2003AN | 7915CT |

84988 480 pcs. (40 types) Linear IC kit \$199.95 \$179.95

130411 Refill for 84988 (480 pcs.) 184.95 169.95

Transistor Kit

Includes 560 pcs. (20 Types)

| 100 each | 10 each | 10 each | 10 each | 10 each |
|----------|---------|---------|----------|---------|
| 2N3904 | 2N2222A | 2N4401 | MJE3055T | TIP31A |
| 2N3906 | 2N2907A | 2N4403 | MPSA18 | TIP32A |
| PN2222 | 2N3053 | 2N5401 | MPSA06 | TIP102 |
| PN2907 | 2N3055 | 2N7000 | MPSA13 | TIP120 |

82595 560 pcs. Transistor kit \$69.95 \$59.95

130374 Refill for 82595 (560 pcs.) 54.95 49.95

Diode and Rectifier Kit

Includes 420 pcs. (15 Types) Zener Switching & Silicon Rectifiers

| 100 each | 10 each | 10 each | 10 each | 10 each |
|----------|---------|---------|---------|---------|
| 1N914 | 1N270 | 1N4007 | 1N4735A | 1N5408 |
| 1N4004 | 1N751A | 1N4150 | 1N4742A | C106B1 |
| 1N4148 | 1N4001 | 1N4733A | 1N5404 | KBP02M |

82587 420 pcs. Diode kit \$44.95 \$39.95

130366 Refill for 82587 (420 pcs.) 29.95 26.95

1/8-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/8-Watt 5% Resistors

| 10 each | 10 each | 10 each | 10 each | 10 each | 50 each | 50 each |
|---------|---------|---------|---------|---------|---------|---------|
| 10Ω | 390Ω | 2.2kΩ | 6.8kΩ | 47kΩ | 100Ω | 4.7kΩ |
| 47Ω | 470Ω | 2.7kΩ | 15kΩ | 470kΩ | 220Ω | 10kΩ |
| 150Ω | 680Ω | 3.3kΩ | 22kΩ | 1MΩ | 1kΩ | 100kΩ |
| 270Ω | 1.5kΩ | 5.1kΩ | 27kΩ | 10MΩ | — | — |
| 330Ω | 2kΩ | 5.6kΩ | 33kΩ | — | — | — |

Part No. Description 1 5

108329 540 pcs. 1/8-watt Resistor kit .. \$29.95 \$26.95

108303 Refill for 108329 (540 pcs.) 14.95 13.49

1/4-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/4-Watt 5% Resistors

| 10 each | 10 each | 10 each | 10 each | 10 each | 50 each | 50 each |
|---------|---------|---------|---------|---------|---------|---------|
| 10Ω | 390Ω | 2.2kΩ | 5.6kΩ | 47kΩ | 100Ω | 4.7kΩ |
| 47Ω | 470Ω | 2.2kΩ | 15kΩ | 470kΩ | 220Ω | 10kΩ |
| 150Ω | 680Ω | 2.7kΩ | 20kΩ | 1MΩ | 1kΩ | 100kΩ |
| 270Ω | 1.2kΩ | 3.3kΩ | 22kΩ | 10MΩ | — | — |
| 330Ω | 1.5kΩ | 5.1kΩ | 33kΩ | — | — | — |

81832 540 pcs. 1/4-watt Resistor kit .. \$29.95 \$26.95

103166 Refill for 81832 (540 pcs.) 14.95 13.49

1/2-Watt Carbon Film Resistor Kit

Includes 540 pcs. (30 Values) 1/2-Watt 5% Resistors

| 10 each | 10 each | 10 each | 10 each | 10 each | 50 each | 50 each |
|---------|---------|---------|---------|---------|---------|---------|
| 10Ω | 390Ω | 2.2kΩ | 6.8kΩ | 47kΩ | 100Ω | 4.7kΩ |
| 47Ω | 470Ω | 2.7kΩ | 15kΩ | 470kΩ | 220Ω | 10kΩ |
| 150Ω | 680Ω | 3.3kΩ | 22kΩ | 1MΩ | 1kΩ | 100kΩ |
| 270Ω | 1.5kΩ | 5.1kΩ | 27kΩ | 10MΩ | — | — |
| 330Ω | 2kΩ | 5.6kΩ | 33kΩ | — | — | — |

107879 540 pcs. 1/2-watt Resistor kit \$39.95 \$34.95

107853 Refill for 107879 (540 pcs.) 24.95 22.49

1/2-Watt Single Turn Cermet Pot Kit

Includes 200 pcs. (160 pcs) below, (40 pcs) misc 1/4, 1/2, 3/4W

| 20 each | 10 each | 10 each | 10 each | 10 each | 10 each | 10 each |
|---------|---------|---------|---------|---------|---------|---------|
| 500Ω | 50Ω | 2kΩ | 10kΩ | 25kΩ | 100kΩ | 1MΩ |
| 1kΩ | 100Ω | 5kΩ | 20kΩ | 50kΩ | 500Ω | 2MΩ |

85032 200 pcs. single turn Pot kit \$49.95 \$44.95

3/4-Watt 15 Turn Cermet Pot Kit

Includes 200 pcs. (160 pcs) below, (40 pcs) misc 1/4, 1/2, 3/4W

| 20 each | 10 each | 10 each | 10 each | 10 each | 10 each | 10 each |
|---------|---------|---------|---------|---------|---------|---------|
| 500Ω | 100Ω | 2kΩ | 10kΩ | 25kΩ | 250kΩ | 1MΩ |
| 200kΩ | 1kΩ | 5kΩ | 20kΩ | 50kΩ | 500kΩ | 2MΩ |

85041 200 pcs. 15 turn Pot kit \$59.95 \$53.95

LEDs & Mounting Hardware Kit

Includes 600 pcs. (24 Types) LEDs and Mounting Hardware

| 100 each | 10 each | 10 each | 10 each | 10 each | 10 each |
|----------|---------|---------|---------|---------|---------|
| 23077 | 152864 | 2186435 | 790111 | 2183154 | 2186419 |
| 95513 | 14277 | 2186558 | 2133413 | 2006705 | 98968 |
| 697590 | 2169846 | 2155268 | 2193897 | 2133552 | 2183023 |
| 2006730 | 1995960 | 790217 | 2121666 | 2133552 | 152864 |

84996 600 pcs. LED & Hardware kit ... \$59.95 \$53.95

Switch Kit

Includes 180 pcs. (18 Types) Pushbutton, DIP & Toggle Switches

| 100 each | 10 each | 10 each | 10 each | 10 each | 10 each |
|----------|---------|---------|---------|---------|---------|
| 139012 | 2181829 | 2181167 | 26649 | 21952 | 2182442 |
| 2082257 | 72161 | 2182194 | 2181781 | 21910 | 1945241 |
| 2182055 | 2181301 | 26623 | 109171 | 153252 | 2178566 |

85059 180 pcs. Switch kit \$79.95 \$71.95

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

Passives

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Component Grab Bags

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



135271 - LEDs



18201 - LED Displays



18235 - Switches



18294 - Toy Motors



2226943 - LEDs



2133739 - Connectors



319600 - Cabinet

JAMECO ValuePro

• Opened grab bags are not returnable

• Use our 20-drawer cabinet w/ labels to store your components, P/N 319600

★ Web Code: GBS

Shaded in brown on this page you will find Jameco's nine (9) most popular component Grab Bags. They are all individually bagged and are combined to make up the Schwab's School Selection (P/N 163213).

Capacitors and Inductors/Chokes

| Part No. | Product No. | Description | Wt. (lbs.) | 1 | 10 |
|----------|-------------|---|------------|--------|--------|
| 17857 | GB100 | 200 assorted ceramic disc capacitors | 0.2 | \$6.95 | \$5.95 |
| 135335 | GB100LB | 900 assorted ceramic disc capacitors | 1.0 | 16.95 | 14.95 |
| 17881 | GB101 | 100 assorted mylar capacitors | 0.3 | 7.95 | 6.95 |
| 135458 | GB101LB | 400 assorted mylar capacitors | 1.0 | 19.95 | 17.95 |
| 17911 | GB102 | 100 assorted electrolytic capacitors radial, axial, snap, 85°C, 105°C, ±20% | 0.5 | 9.95 | 8.95 |
| 135394 | GB102LB | 300 assorted electrolytic capacitors | 1.0 | 19.95 | 17.95 |
| 17945 | GB103 | 100 assorted tantalum capacitors (dipped epoxy and solid tubular) | 0.1 | 9.95 | 8.95 |
| 2081342 | GB200 | 100 assorted axial chokes & inductors | 2.0 | 14.95 | 13.49 |

Bumpers and Rubber Feet Assortment

| | | | | | |
|---------|-------|---|--|--------|--------|
| 2081385 | GB201 | 100 assorted bumpers & adhesive rubber feet | | \$8.95 | \$7.95 |
|---------|-------|---|--|--------|--------|

Resistor and Resistor Network Assortments

| | | | | | |
|---------|-------|---|-----|--------|--------|
| 2202669 | GB215 | 100 asst. resistors (1%), 0805/1206 SMD | 0.2 | \$3.95 | \$3.59 |
| 134130 | GB115 | 200 asst. 1/8, 1/4, 1/2 resistors (1,5&10%) | 0.8 | 6.95 | 5.95 |
| 18104 | GB116 | 200 assorted 1/4W resistors (1,5&10%) | 0.1 | 6.95 | 5.95 |
| 18139 | GB117 | 200 assorted 1/2W resistors (5&10%) | 0.2 | 6.95 | 5.95 |

Trimmers, Single and Multi-Turn Potentiometers

| | | | | | |
|--------|---------|---|-----|--------|--------|
| 18075 | GB113 ✓ | 200 assorted 1/10W to 1/5W trimmer pots (100Ω to 2MΩ values) | 0.3 | \$9.95 | \$8.95 |
| 18278 | GB174 | 100 asst. 1/4W to 3/4W linear, single & multi-turn pots (100Ω to 5MΩ assorted values) | 0.2 | 12.95 | 11.49 |
| 135407 | GB174LB | 300 asst. 1/4W to 3/4W linear pots (above) | 1.0 | 29.95 | 26.95 |

Spacer, Standoff and Terminal Assortments

| | | | | | |
|---------|---------|--|-----|---------|---------|
| 55968 | GB140 | 100 assorted 4-40, 6-32, 8-32 round/hex, aluminum/steel, spacers/standoffs | 0.3 | \$14.95 | \$12.95 |
| 135423 | GB140LB | 300 assorted same as P/N 55968 | 1.0 | 29.95 | 26.95 |
| 2082118 | GB203 ✓ | 200 assorted solderless terminals (spade, ring, faston, butt, crimp types) | 0.6 | 4.95 | 4.49 |

Screw Hardware and Drill Bit Assortments

| • Plastic | • Steel | • Brass | • Aluminum | | | |
|-----------|---------|--|------------|-------|--------|--------|
| 171571 | GB149 | 500 assorted types of screws, #2, 4, 6, 8 nuts, washers & lock washers | 1.0 | ..... | \$6.95 | \$6.25 |
| 171635 | GB149LB | 1400 asst. same as P/N 171571 | 3.2 | ..... | 14.95 | 13.49 |
| 2082038 | GB202 | 20 assorted drill bits 7 sizes: .021" (#75) through .125" (#1/8) | 0.3 | ..... | 19.95 | 18.49 |

Schwab's Electronic Component School Selection

Jameco's nine (9) most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer Loren Schwab recommended this selection of products as standard items. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.



\$88.55 Value

What's your suggestion?

| Part No. | Product No. | Description | Wt. (lbs.) | 1 | 10 |
|----------|-------------|-----------------------------|------------|---------|---------|
| 163213 | GB197 | Schwab's School Selection | 2.2 | \$69.95 | \$63.95 |
| 319600 | 6897CAB | 20 drawer component cabinet | 3.5 | 19.95 | 17.95 |

BONUS! Grab Bags marked with ✓ — Double the Quantity for the Same Price!

Integrated Circuits and IC Sockets

| Part No. | Product No. | Description | Wt. (lbs.) | 1 | 10 |
|----------|-------------|---|------------|---------|---------|
| 17996 | GB108 | 100 assorted TTL series DIP & SMD (SOIC) (74, 74ALS, 74HC, 74HCT, 74F, 74LS, 74S) | 0.2 | \$12.95 | \$11.49 |
| 135280 | GB108LB | 400 assorted TTL series DIP & SMD (SOIC) | 1.0 | 39.95 | 35.95 |
| 2202802 | GB217 | 50 asst. TTL, linear series SOIC/SMD pkg. | 0.3 | 4.95 | 4.49 |
| 114964 | GB171 | 50 assorted Micros, RAMs, SRAMs, PROMs, EPROMs, CPU, DRAMMs (DIP) | 0.2 | 12.95 | 11.49 |
| 105620 | GB120 | 100 assorted sockets (DIP, PGA, SIMM, SIP) | 0.3 | 6.95 | 5.95 |

Diodes, Transistors and Crystals/Oscillators

| | | | | | |
|--------|-------|--|-----|--------|--------|
| 17961 | GB107 | 200 assorted diodes (zener, switching, silicon rectifiers) | 0.1 | \$9.95 | \$8.95 |
| 18171 | GB127 | 100 asst. transistors/thyristors (NPN, PNP) | 0.1 | 9.95 | 7.95 |
| 114446 | GB150 | 100 assorted crystals/oscillators | 0.2 | 7.95 | 6.95 |

Switches, Toy Motors & Gear Sets

| | | | | | |
|---------|---------|---|-----|--------|--------|
| 18235 | GB165 | 50 assorted switches (toggle, pushbutton, rocker, slide, DIP) | 0.4 | \$9.95 | \$8.95 |
| 135378 | GB165LB | 150 assorted #18235 switches | 2.0 | 19.95 | 17.95 |
| 18294 | GB182 | 5 assorted toy DC motors (1.5-24V) | 0.5 | 7.95 | 6.95 |
| 1810072 | GB210 | 10 pcs. gear set, plastic, black T10, 20, 30, 40, 50 with bushings | 0.2 | 6.95 | 6.25 |

LEDs, Displays, Lasers, Photocells & Solar Cells

| | | | | | |
|---------|---------|--|-----|--------|--------|
| 18041 | GB110 | 100 assorted LEDs (all colors) (T1 & T1½ round and rectangular) | 0.1 | \$6.95 | \$6.25 |
| 2226943 | GB110R | 100 assorted LEDs (red only) | 0.1 | 4.95 | 4.49 |
| 2226951 | GB110G | 100 assorted LEDs (green only) | 0.1 | 4.95 | 4.49 |
| 2226960 | GB110Y | 100 assorted LEDs (yellow only) | 0.1 | 4.95 | 4.49 |
| 135271 | GB110LB | 1800 assorted LEDs (all colors) #18041 | 1.0 | 59.95 | 53.95 |
| 2203311 | GB310 | 100 assorted PCB housing colored LEDs (T1 & T1½ single to multiple rt. angle LEDs) | 0.5 | 4.95 | 4.49 |
| 18201 | GB162 | 50 assorted sizes of colored displays (7-seg, LCD, dot-matrix, bar graph) | 0.5 | 19.95 | 17.95 |
| 2228691 | GB219 | 5 assorted red laser pointers (650nm, 1500' range, various case colors) | 0.9 | 6.95 | 6.25 |
| 169578 | GB125 | 50 assorted values photocells | 0.2 | 16.95 | 14.95 |
| 2113666 | GB213 | 40 assorted size solar cells | 0.1 | 9.95 | 8.95 |

Molex/Tyco Style Headers, Connectors & Contacts

| | | | | | |
|---------|---------|--|-----|--------|--------|
| 2095138 | GB204 ✓ | 200 asst. .079/.100 male headers (straight, right angle, single and double row) | 0.6 | \$9.95 | \$8.95 |
| 2133739 | GB207 ✓ | 200 asst. IDC, CMML, Mini-Fit JR/SR, power connectors, .100, .118, .165 (straight & R/A) | 0.8 | 9.95 | 8.95 |

Surprise Electronic Component Grab Bag (2 lbs.)

Axial and radial electrolytics, monolithic, dipped silver mica and mylar capacitors, ICs, connectors, sockets, headers, thermistors, LEDs, resistor networks, diodes, standoffs, transistors, oscillators/resonators, inductors, crystals, resistors, pots and switches (hundreds).

Best Seller!



| Part No. | Product No. | Description | Wt. (lbs.) | 1 | 10 |
|----------|-------------|---|------------|---------|---------|
| 135263 | GB191LB ✓ | Assorted electronic components, 8"L x 8"W x 2"H | | \$19.95 | \$17.95 |

Electrolytic Capacitors

JAMECO ValuePro

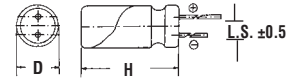
Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 85°C

★ Web Code: CCE

| | | |
|---------------------------|--------------|-------------------------------------|
| Leakage Current (20°C) | After 1 min. | 0.03CV or 4μA, whichever is greater |
| | After 2 min. | 0.01CV or 3μA, whichever is greater |



NEW
MARKED IN PINK



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UVR; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

* Order in multiples of 10

| Part No. | Cross Ref. No.† | Value (μF) | Volt | Size (mm)* D x H x L.S. | Pricing | | | |
|----------|-----------------|------------|------|----------------------------|---------|-------|-------|-------|
| | | | | | 1 | 10 | 100 | 500 |
| 2151970 | R0.1/50 | 0.1 | 50 | 5 x 11 x 5 | \$.25 | \$.12 | \$.07 | \$.05 |
| 609043 | UVR2A0R1MDD | 0.1 | 100 | 5 x 11 x 2 | .25 | .09 | .07 | .05 |
| 330465 | RA0.47/50 | 0.47 | 50 | 5 x 11 x 2 | * | .19 | .11 | .08 |
| 330431 | RA1/25 | 1 | 25 | 5 x 11 x 2 | * | .15 | .09 | .06 |
| 94161 | 5R1/50 | 1 | 50 | 4 x 5 x 1.5 | * | .19 | .10 | .07 |
| 29831 | R1/50 | 1 | 50 | 5 x 11 x 2 | * | .12 | .07 | .05 |
| 115423 | R1/63# | 1 | 63 | 5 x 11 x 2 | .25 | .09 | .05 | .04 |
| 93729 | R2.2/50 | 2.2 | 50 | 5 x 11 x 2 | * | .09 | .06 | .04 |
| 93731 | R2.2/50-R | 2.2 | 50 | 5 x 11 x 2 | * | .15 | .09 | .06 |
| 135184 | R3.3/50 | 3.3 | 50 | 5 x 11 x 2 | * | .15 | .09 | .06 |
| 2143460 | R4.7/25 | 4.7 | 25 | 4 x 7 x 2.5 | * | .15 | .09 | .06 |
| 2229597 | R4.7/25V | 4.7 | 25 | 5 x 11 x 2 | .25 | .15 | .12 | .09 |
| 2230109 | R4.7/35 | 4.7 | 35 | 5 x 11 x 2 | * | .12 | .07 | .05 |
| 31000 | R4.7/50 | 4.7 | 50 | 5 x 11 x 2 | * | .12 | .07 | .05 |
| 198839 | R10J/16 | 10 | 16 | 5 x 11 x 2 | * | .15 | .09 | .06 |
| 94212 | 5R10/25 | 10 | 25 | 4 x 5 x 1.5 | * | .19 | .12 | .09 |
| 1946367 | R10/25ATR | 10 | 25 | 5 x 11 x 5 | * | .12 | .07 | .06 |
| 94221 | 5R10/35 | 10 | 35 | 5 x 5 x 2 | * | .19 | .12 | .09 |
| 29891 | R10/50 | 10 | 50 | 5 x 11 x 2 | * | .15 | .09 | .07 |
| 29893 | R10/50-R | 10 | 50 | 5 x 11 x 2 | * | .19 | .12 | .09 |
| 1946295 | R22/16 | 22 | 16 | 5 x 12 x 5 | * | .12 | .09 | .05 |
| 93739 | R22/50 | 22 | 50 | 5 x 11 x 2 | * | .15 | .09 | .07 |
| 93747 | R33/50 | 33 | 50 | 6.3 x 11 x 2.5 | * | .19 | .11 | .08 |
| 1946244 | R47/16TR | 47 | 16 | 5 x 12 x 5 | .25 | .07 | .04 | .02 |
| 198952 | R47J/35 | 47 | 35 | 5 x 11 x 2 | * | .12 | .07 | .06 |
| 31114 | R47/50 | 47 | 50 | 6 x 11 x 2.5 | * | .15 | .12 | .09 |
| 330676 | RA47/450-R | 47 | 450 | 18 x 30 x 7.5 | 1.25 | 1.09 | .99 | .89 |
| 1946261 | R68/16TR | 68 | 16 | 5 x 11 x 5 | .25 | .07 | .05 | .04 |
| 2230539 | R100/10 | 100 | 10 | 6 x 11 x 2 | * | .12 | .07 | .05 |
| 330422 | RA100/16 | 100 | 16 | 5 x 11 x 2 | * | .15 | .09 | .07 |
| 94289 | 5R100/16 | 100 | 16 | 6.5 x 5 x 2.5 | * | .15 | .09 | .07 |
| 93761 | R100/25 | 100 | 25 | 6 x 11 x 5.0 | * | .09 | .07 | .05 |
| 198970 | R100J/35 | 100 | 35 | 6.3 x 11 x 2.5 | * | .12 | .09 | .07 |
| 29962 | R100/50 | 100 | 50 | 8 x 11 x 3.5 | * | .15 | .10 | .08 |

Note: Above case sizes may have ± tolerances "TR" at the end of Cross Ref. numbers are Tape and Reel

* Order in multiples of 10

| Part No. | Cross Ref. No.† | Value (μF) | Volt | Size (mm)* D x H x L.S. | Pricing | | | |
|----------|-----------------|------------|------|----------------------------|---------|-------|-------|-------|
| | | | | | 1 | 10 | 100 | 500 |
| 330529 | RA100/100 | 100 | 100 | 10 x 17 x 5 | \$.49 | \$.29 | \$.19 | \$.15 |
| 330580 | RA100/160S | 100 | 160 | 16 x 25 x 7.5 | .45 | .29 | .25 | .19 |
| 330684 | RA100/450 | 100 | 450 | 22 x 42.5 x 10.5 | 2.09 | 1.89 | 1.69 | 1.35 |
| 198872 | R220J/16 | 220 | 16 | 6.3 x 11 x 2.5 | * | .12 | .07 | .06 |
| 30496 | R220/25 | 220 | 25 | 8 x 11 x 3.5 | * | .19 | .11 | .08 |
| 93772 | R220/35 | 220 | 35 | 8 x 12 x 3.5 | * | .19 | .12 | .09 |
| 93778 | R220/50 | 220 | 50 | 10 x 12 x 5 | * | .15 | .12 | .09 |
| 93796 | R330/25 | 330 | 25 | 10 x 12 x 5 | * | .12 | .08 | .06 |
| 198978 | R330J/35 | 330 | 35 | 10 x 12.5 x 5 | * | .12 | .09 | .08 |
| 330473 | RA330/50 | 330 | 50 | 10 x 16 x 5 | .25 | .15 | .12 | .09 |
| 93809 | R470/16 | 470 | 16 | 8 x 11 x 3.5 | * | .12 | .09 | .07 |
| 31181 | R470/25 | 470 | 25 | 10 x 12 x 5 | .39 | .25 | .19 | .15 |
| 93817 | R470/35 | 470 | 35 | 10 x 16 x 5 | .29 | .22 | .14 | .12 |
| 93827 | R470/50 | 470 | 50 | 10 x 20 x 5 | .49 | .35 | .22 | .19 |
| 158465 | R470B63 | 470 | 63 | 13 x 20 x 5 | .55 | .45 | .29 | .25 |
| 330456 | RA680/25S | 680 | 25 | 8 x 16 x 3.5 | .35 | .25 | .19 | .15 |
| 2229554 | R680UF-25V | 680 | 25 | 16 x 25 x 7 | .25 | .19 | .15 | .12 |
| 30015 | R1000/16 | 1000 | 16 | 10 x 16 x 5 | * | .15 | .12 | .09 |
| 93833 | R1000/25 | 1000 | 25 | 10 x 20 x 5 | .45 | .29 | .19 | .17 |
| 93841 | R1000/50 | 1000 | 50 | 13.6 x 25.8 x 5.5 | .59 | .49 | .35 | .29 |
| 199111 | R1000J/100 | 1000 | 100 | 18 x 41 x 7.5 | 1.75 | 1.39 | 1.19 | .99 |
| 133148 | R2200/16† | 2200 | 16 | 18 x 16 x 5 | .39 | .25 | .19 | .15 |
| 30533 | R2200/25 | 2200 | 25 | 12 x 25 x 5 | .69 | .49 | .35 | .29 |
| 30535 | R2200/25-R | 2200 | 25 | 13 x 21 x 5 | .79 | .55 | .39 | .35 |
| 2229546 | R2200UF-25V | 2200 | 25 | 22 x 40 x 12 | .59 | .49 | .45 | .35 |
| 198986 | R2200J/35 | 2200 | 35 | 16 x 25 x 7.5 | .75 | .59 | .39 | .35 |
| 198898 | R3300J/16 | 3300 | 16 | 13 x 21 x 5 | .69 | .45 | .29 | .25 |
| 30893 | R3300/25 | 3300 | 25 | 13 x 29 x 5 | .89 | .75 | .59 | .49 |
| 2033551 | UVR1V332MHD† | 3300 | 35 | 16 x 35.5 x 7.5 | .89 | .79 | .69 | .59 |
| 198901 | EC470016H1626-R | 4700 | 16 | 16 x 25 x 7.5 | .79 | .59 | .49 | .39 |
| 93850 | R4700/25 | 4700 | 25 | 16 x 31 x 7.5 | .99 | .89 | .69 | .59 |
| 199006 | R4700J/35 | 4700 | 35 | 18 x 35 x 7.5 | 1.49 | 1.25 | .89 | .79 |
| 163301 | R4700/50 | 4700 | 50 | 25 x 40 x 12.7 | 1.75 | 1.39 | 1.09 | .99 |
| 198935 | R6800J/25 | 6800 | 25 | 18 x 35.5 x 7.5 | 1.59 | 1.09 | .85 | .75 |

* Capacitor dimensions and styles may vary #Mfr.:Arndt †Mfr.: Nichicon

Passives

JAMECO ValuePro

Snap-Mount Large-Can Aluminum Electrolytic Capacitors (±20%)

- Operating temperature range: (SMG, SNA & ECO) -40°C to +85°C; (SNB) -40°C to +105°C
- Can-top safety vent



2188684

★ Web Code: EBG

| Part No. | Cross Ref. No. | *Mfr. | Value (μF) | Volt | Size (mm)* D x H x L.S. | Pricing | | |
|----------|----------------|-------|------------|------|----------------------------|---------|--------|--------|
| | | | | | | 1 | 10 | 100 |
| 2188684 | SMG470/200 | NIP | 470 | 200 | 22 x 41 x 10 | \$1.95 | \$1.75 | \$1.49 |
| 331901 | SNB6800/50 | JVP | 6800 | 50 | 25.2 x 42.4 x 9 | 3.95 | 3.59 | 3.25 |
| 157738 | SNB10000/50 | JVP | 10000 | 50 | 35 x 40 x 12 | 4.95 | 4.49 | 3.95 |
| 331716 | SNA15000/25 | JVP | 15000 | 25 | 25 x 41 x 9 | 2.95 | 2.75 | 2.49 |

* Capacitor dimensions and styles may vary

* JVP = Jameco ValuePro | NIP = Nippon

Radial Electrolytic Capacitor Kit

240 pcs. (15 Values) Radial Electrolytic Capacitors

Includes: 20 drawer component cabinet (319600), 20 clear plastic drawers (319601), 20 clear dividers (319611) and 30 adhesive labels for drawers to identify parts in kit.

10 each: 100μF @ 50V, 220μF @ 25V, 470μF @ 25V, 1000μF @ 16V, 2200μF @ 25V, 3300μF @ 25V

20 each: 1μF @ 50V, 1μF @ 100V, 2μF @ 50V, 3.3μF @ 50V, 4.7μF @ 50V, 10μF @ 50V, 22μF @ 50V, 47μF @ 50V, 100μF @ 25V

★ Web Code: CKS

| Part No. | Description | 1 | 5 |
|----------|-------------------------------|---------|---------|
| 81867 | 240 pcs. Radial Capacitor kit | \$44.95 | \$39.95 |
| 130331 | Refill for 81867 (240 pcs.) | 29.95 | 24.95 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Electrolytic, Memory Back-Up & Ceramic Trimmer Capacitors

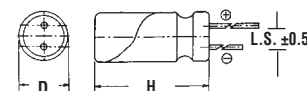
JAMECO ValuePro

Aluminum Radial-Lead Polarized Electrolytic Capacitors (±20%) 105°C

*Web Code: HAA

105°C – HT Type General Purpose

| | | |
|---------------------------|--------------|-------------------------------------|
| Leakage Current (20°C) | After 1 min. | 0.03CV or 4µA, whichever is greater |
| | After 2 min. | 0.01CV or 3µA, whichever is greater |



† CROSS REFERENCES: Nichicon: LB/VX/USA/SR/SA/UPW/UVZ/UHE; Elna: RC2/RE2; IC: RAR/RSS; Marcon: SEM/SSM; Rubycon: MS7/TWSS; Sprague: 501D/513D; UCC: SME/SRE/SRA/SRG; Panasonic: KA/KS/SU

* Order in multiples of 10

| Part No. | Cross Ref. No.† | Mfr. | Value (µF) | Volt | Size (mm)* D x H x L.S. | Pricing | | | |
|----------|-----------------|------|------------|------|----------------------------|---------|--------|--------|--------|
| | | | | | | 1 | 10 | 100 | 500 |
| 609545 | UVZ1H0R1MDD | JVP | 0.1 | 50 | 5 x 11 x 2 | * | \$.12 | \$.09 | \$.07 |
| 330772 | RB1/50 | JVP | 1 | 50 | 5 x 11 x 2 | * | .12 | .09 | .07 |
| 158491 | R1B100 | JVP | 1 | 100 | 5 x 11 x 2 | * | .15 | .11 | .09 |
| 609561 | UVZ1H2R2MDD | JVP | 2.2 | 50 | 5 x 11.5 x 2 | * | .15 | .11 | .09 |
| 330781 | RB4.7/50 | JVP | 4.7 | 50 | 5 x 11 x 2 | * | .15 | .09 | .07 |
| 330692 | RB10/16 | JVP | 10 | 16 | 5 x 11 x 2 | * | .15 | .11 | .09 |
| 330799 | RB10/50 | JVP | 10 | 50 | 5 x 11 x 2 | * | .15 | .11 | .09 |
| 609641 | UVZ1J100MDD | JVP | 10 | 63 | 5 x 11 x 2 | * | .15 | .11 | .09 |
| 610036 | UVZ2W100MHD | JVP | 10 | 450 | 13 x 21 x 5 | .69 | .59 | .45 | .39 |
| 158327 | R22B35 | JVP | 22 | 35 | 5 x 11 x 2 | * | .07 | .05 | .04 |
| 93737 | RB22/50TR | JVP | 22 | 50 | 5.3 x 12 x 5 | * | .09 | .07 | .05 |
| 609975 | UVZ2E220MHD | JVP | 22 | 250 | 13 x 20 x 5 | .39 | .35 | .25 | .19 |
| 2230281 | R22/350 | NIC | 22 | 350 | 13 x 25 x 6 | .69 | .45 | .29 | .22 |
| 608374 | UPW2A330MPD6 | JVP | 33 | 100 | 8 x 15 x 3.5 | .25 | .12 | .09 | .07 |
| 609502 | UVZ1C470MDD | JVP | 47 | 16 | 5 x 11 x 2 | * | .15 | .12 | .09 |
| 1945428 | R47/35 | JVP | 47 | 35 | 6.3 x 11 x 2 | .25 | .09 | .07 | .05 |
| 330820 | RB47/50 | JVP | 47 | 50 | 6.3 x 11 x 2.5 | * | .15 | .09 | .07 |
| 2100241 | RB47/100 | JVP | 47 | 100 | 10 x 16 x 5 | .25 | .19 | .15 | .12 |
| 610010 | UVZ2E470MHD | JVP | 47 | 250 | 13 x 25 x 5 | .79 | .55 | .45 | .39 |
| 330740 | RB100/25 | JVP | 100 | 25 | 6.3 x 11 x 2.5 | * | .15 | .12 | .09 |
| 158394 | R100B50 | JVP | 100 | 50 | 8 x 11.5 x 3.5 | * | .19 | .15 | .12 |
| 608032 | UPL1J101MH6 | JVP | 100 | 63 | 13 x 15 x 5 | .25 | .19 | .15 | .09 |
| 609967 | UVZ2E101MHD | JVP | 100 | 250 | 16 x 31 x 7.5 | 1.39 | .99 | .79 | .59 |
| 2158426 | RC120/400 | ADT | 120 | 400 | 16 x 35 x 7 | 1.09 | .99 | .89 | .69 |
| 608340 | ECA1JF0151L | JVP | 150 | 63 | 10 x 21 x 5 | .25 | .19 | .15 | .12 |
| 606934 | EEUFC1J181 | JVP | 180 | 63 | 10 x 20 x 5 | .25 | .12 | .09 | .07 |
| 158263 | R220B25 | JVP | 220 | 25 | 8 x 11 x 3.5 | * | .15 | .12 | .09 |
| 93770 | R220/35 | JVP | 220 | 35 | 10 x 16 x 5 | * | .17 | .15 | .12 |
| 606820 | UHE1H221MPD | JVP | 220 | 50 | 10 x 16 x 5 | .25 | .19 | .15 | .12 |
| 609721 | UVZ1V331MPD | JVP | 330 | 35 | 10 x 16 x 5 | .25 | .19 | .15 | .12 |
| 2258435 | KM2242 | JVP | 330 | 250 | 22 x 42 x 10 | 1.75 | 1.59 | 1.35 | 1.25 |
| 158203 | R470B16 | JVP | 470 | 16 | 8 x 11 x 3.5 | * | .19 | .15 | .12 |

* Capacitor dimensions and styles may vary

JAMECO ValuePro

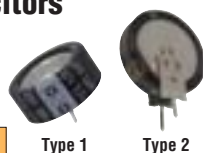
Memory Back-Up Capacitors

Applications:

- Back-up on CMOS microcomputers, static RAM, DTSs (digital tuning systems)
- Memory back-up of remote controllers

Features: • Voltage: 5.5VDC, 8VDC
• Small size vs. capacitance

*Web Code: SAB



| Part No. | Cross Ref. No. | Type | Value (F) | Volts | Dia. x Thick x Pin (mm) | 1 | 10 | 100 |
|----------|----------------|------|-----------|-------|-------------------------|--------|--------|--------|
| 142957 | MBC1.0/5.5 | 1 | 1.0 | 5.5 | 19.8 x 7.5 x 5.3 | \$3.59 | \$3.29 | \$2.95 |
| 227811 | S5R5V105 | 2 | 1.0 | 5.5 | 18.8 x 5.1 x 5.8 | 3.59 | 3.29 | 2.95 |

BLOW OUT SALE ON CAPACITORS

* Order in multiples of 10

| Part No. | Type | Package | Value (µF) | Volt | 1 | 10 | 100 | |
|----------|---------------------------|---------|------------|------|-------|--------|--------|--------|
| 1947386 | Ceramic Disc Radial | Radial | 0.0022 | 500 | .... | \$ .25 | \$.09 | \$.05 |
| 740607 | Electrolytic SMT | SMT | 0.1 | 50 | ..... | .25 | .045 | .03 |
| 2215777 | Electrolytic Snap | Snap | 3300 | 16 | ..... | .29 | .25 | .19 |
| 115378 | Electrolytic Snap | Snap | 4700 | 35 | ..... | .49 | .45 | .39 |
| 2159808 | Metal Film Radial | Radial | 0.0015 | 2500 | ..... | .25 | .049 | .035 |
| 1570161 | Multilayer Ceramic Radial | Radial | 1.0 | 50 | ..... | * | .19 | .15 |
| 920510 | Polyester Film Radial | Radial | 0.1 | 50 | ..... | .39 | .35 | .29 |
| 1938421 | Tantalum Radial | Radial | 1.0 | 35 | ..... | .39 | .29 | .25 |
| 850224 | Tantalum SMT | SMT | 10 | 16 | ..... | * | .19 | .15 |

* ADT = Arndt Electronics | JVP = Jameco ValuePro | NIC = Nichicon | PAN = Panasonic | SAM = Samsung

| Part No. | Cross Ref. No.† | Mfr. | Value (µF) | Volt | Size (mm)* D x H x L.S. | Pricing | | | |
|----------|-------------------|------|------------|------|----------------------------|---------|--------|--------|--------|
| Part No. | Cross Ref. No.† | Mfr. | Value (µF) | Volt | Size (mm)* D x H x L.S. | 1 | 10 | 100 | 500 |
| 158289 | R470B25 | JVP | 470 | 25 | 10 x 16 x 5 | \$.35 | \$.29 | \$.25 | \$.19 |
| 606740 | UHE1E471MPD6 | JVP | 470 | 25 | 10 x 17 x 5 | .29 | .25 | .19 | .15 |
| 606854 | UHE1H471MPD | JVP | 470 | 50 | 13 x 20 x 5 | .39 | .35 | .29 | .25 |
| 2133430 | EEU-FN1C681L | PAN | 680 | 16 | 8 x 21 x 2.5 | .25 | .19 | .15 | .12 |
| 2129781 | CETMQ1V681M1321BB | SAM | 680 | 35 | 13 x 21 x 4 | .59 | .45 | .29 | .25 |
| 607355 | UPWDI821MPD | JVP | 820 | 6.3 | 14.5 x 8.2 x 3.5 | .39 | .29 | .15 | .12 |
| 606432 | UHEQJ102MPD | JVP | 1000 | 6.3 | 8 x 14 x 3.5 | .25 | .19 | .15 | .12 |
| 607363 | UPW1A102MPD | JVP | 1000 | 10 | 8 x 20 x 3.5 | .39 | .29 | .19 | .15 |
| 330722 | RB1000/16 | JVP | 1000 | 16 | 10 x 20 x 5 | .39 | .29 | .19 | .15 |
| 158298 | R1000B25 | JVP | 1000 | 25 | 10 x 17 x 5 | .45 | .39 | .35 | .25 |
| 1984494 | EEU-EB1V102 | PAN | 1000 | 35 | 12.5 x 25 x 5 | .79 | .59 | .49 | .42 |
| 158378 | R1000B35 | JVP | 1000 | 35 | 13 x 21 x 5 | .59 | .55 | .49 | .39 |
| 609553 | UVZ1H102MHD | JVP | 1000 | 50 | 13 x 25 x 5 | .75 | .65 | .55 | .45 |
| 607232 | UPWQJ152MPD | JVP | 1500 | 6.3 | 10 x 20 x 5 | .29 | .19 | .15 | .12 |
| 607398 | UPW1A152MPD6 | JVP | 1500 | 10 | 10 x 20 x 5 | .39 | .25 | .19 | .15 |
| 607742 | UPW1E152MHD6 | JVP | 1500 | 25 | 12.5 x 25 x 5 | .49 | .45 | .39 | .35 |
| 607873 | UPW1H152MHD | JVP | 1500 | 50 | 16 x 30 x 7.5 | .65 | .59 | .49 | .39 |
| 606467 | UHEQJ182MHD | JVP | 1800 | 6.3 | 10 x 20 x 5 | .39 | .25 | .19 | .15 |
| 607751 | UPW1E182MHD | JVP | 1800 | 25 | 13 x 25 x 5 | .49 | .39 | .29 | .25 |
| 609342 | UVZQJ222MPD | JVP | 2200 | 6.3 | 10 x 20 x 5 | .35 | .19 | .15 | .12 |
| 606563 | UHE1A222MPD | JVP | 2200 | 10 | 10 x 21 x 5 | .45 | .39 | .29 | .25 |
| 609490 | UVZ1C222MHD | NIC | 2200 | 16 | 13 x 25 x 5 | .59 | .55 | .45 | .39 |
| 2229562 | CEVSM1E222(V)-J2 | ADT | 2200 | 25 | 16 x 38 x 7 | .75 | .65 | .55 | .45 |
| 609705 | UVZ1V222MHD | JVP | 2200 | 35 | 16 x 26 x 7.5 | .79 | .69 | .59 | .49 |
| 158432 | R2200B50 | JVP | 2200 | 50 | 16 x 30 x 7.5 | .95 | .85 | .75 | .59 |
| 608278 | UPW1V332MHD | JVP | 3300 | 35 | 18 x 33 x 7.5 | 1.39 | 1.09 | .75 | .65 |
| 609588 | UVZ1H332MHD | JVP | 3300 | 50 | 18 x 36 x 7.5 | 1.49 | 1.19 | .85 | .75 |
| 607814 | UPW1E472MHD | JVP | 4700 | 25 | 18 x 39 x 7.5 | .75 | .65 | .55 | .49 |
| 2203098 | R5600B6.3 | ADT | 5600 | 6.3 | 12.5 x 40 x 5 | .29 | .25 | .19 | .15 |
| 2125641 | R5600B16 | NIC | 5600 | 16 | 16 x 40 x 7.5 | .39 | .25 | .19 | .15 |
| 609473 | UVZ1C103MHD | JVP | 10000 | 16 | 18 x 41 x 7.5 | 1.25 | 1.09 | .99 | .89 |

* Capacitor dimensions and styles may vary

JAMECO ValuePro

Ceramic Trimmer Capacitors

5mm (.197")

- Working voltage: 200VDC • Withstand voltage: 400VDC
- Turning torque: 35-200 g-cm • Q Factor @ 1MHz: >200
- Operating temperature range: -30°C ~ +85°C
- Insulation resistance: >10MΩ min. @ 250VDC

*Web Code: PBZ



| Part No. | Capacitance Range (pF) | Color Code | 1 | 10 | 100 | 500 |
|----------|------------------------|------------|--------|--------|--------|--------|
| 2178822 | 2.5-5.0 | Nil | \$.49 | \$.39 | \$.29 | \$.25 |
| 136979 | 9.0-50.0 | Green | .89 | .79 | .69 | .59 |
| 2172762 | 12.0-180.0 | Orange | 1.95 | 1.75 | 1.59 | 1.35 |

8mm (.315")

- Working voltage: 250VDC • Withstand volt.: 550VDC
- Turning torque: 40-200 g-cm • Q Factor @ 1MHz: >300
- Operating temperature range: -55°C ~ +85°C
- Insulation resistance: 10MΩ min. @ 250VDC



| Part No. | Capacitance Range (pF) | Color Code | 1 | 10 | 100 | 500 |
|----------|------------------------|------------|--------|--------|--------|--------|
| 134818 | 3.5-13.0 | Ivory | \$.59 | \$.49 | \$.29 | \$.25 |
| 32839 | 4.0-34.0 | Yellow | 1.19 | 1.09 | .99 | .89 |
| 32855 | 6.0-70 | Nil | 1.09 | .99 | .89 | .79 |
| 94449 | 8.5-100 | Purple | 1.35 | 1.19 | 1.09 | .99 |
| 94466 | 8.5-120 | Nil | 1.35 | 1.19 | 1.09 | .99 |

* Suppression Capacitors — Enter Web Code SNC

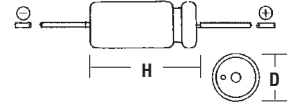
Electrolytic, Dipped Tantalum & Ceramic Capacitors

JAMECO ValuePro

Aluminum Axial-Lead Electrolytic Capacitors (±20%) 85°C

*Web Code: GAA

| | |
|--|-------------------------------------|
| Operating temperature range | -40°C to +85°C |
| Leakage Current (After 2 minutes 20°C) | 0.02CV or 2µA, whichever is greater |



| Part No. | Product No. | Value (µF) | Voltage | Size (mm)* | Pricing | | | |
|----------|-------------|------------|---------|------------|---------|-------|-------|-------|
| | | | | | 1 | 10 | 100 | 500 |
| 10866 | A1/50 | 1 | 50V | 5 x 13 | \$.35 | \$.29 | \$.25 | \$.22 |
| 2215638 | A2.0/35 | 2.0 | 35V | 6 x 13 | .25 | .12 | .09 | .07 |
| 93569 | A2.2/50 | 2.2 | 50V | 6 x 13 | .39 | .35 | .29 | .27 |
| 11076 | A4.7/50 | 4.7 | 50V | 6 x 13 | .39 | .35 | .29 | .27 |
| 2215646 | A5.0/35 | 5.0 | 35V | 6 x 13 | .25 | .12 | .09 | .07 |
| 1946199 | A10/16 | 10 | 16V | 4 x 7 | .39 | .35 | .29 | .27 |
| 10882 | A10/50 | 10 | 50V | 6 x 12 | .49 | .45 | .39 | .37 |
| 331425 | AB10/450 | 10 | 450V | 13 x 25 | 1.75 | 1.49 | 1.09 | .99 |
| 199268 | A22J/25 | 22 | 25V | 6 x 12.5 | .39 | .35 | .29 | .27 |
| 2202520 | A22/35# | 22 | 35V | 6 x 13 | .35 | .29 | .19 | .15 |
| 331433 | AB22/450 | 22 | 450V | 16 x 26.5 | 1.75 | 1.49 | 1.09 | .99 |
| 135319 | A47/25 | 47 | 25V | 8 x 16 | .49 | .39 | .32 | .27 |
| 11105 | A47/50 | 47 | 50V | 8 x 16 | .55 | .49 | .45 | .39 |
| 199188 | A100J/16 | 100 | 16V | 6 x 12.5 | .55 | .49 | .45 | .39 |
| 93551 | A100/35 | 100 | 35V | 8 x 16 | .59 | .55 | .49 | .45 |
| 10911 | A100/50 | 100 | 50V | 8 x 20 | .79 | .75 | .69 | .59 |
| 331417 | AB100/250 | 100 | 250V | 18 x 39 | 1.49 | 1.25 | .99 | .85 |
| 2150811 | A220/16 | 220 | 16V | 10 x 21 | .39 | .35 | .29 | .25 |

*Capacitor dimensions and styles may vary #105°C

| Part No. | Product No. | Value (µF) | Voltage | Size (mm)* | Pricing | | | |
|----------|-------------|------------|---------|------------|---------|-------|-------|-------|
| | | | | | 1 | 10 | 100 | 500 |
| 11019 | A220/50 | 220 | 50V | 10 x 17 | \$.79 | \$.69 | \$.59 | \$.55 |
| 199381 | A470J/35 | 470 | 35V | 10 x 21 | 1.25 | 1.09 | .99 | .89 |
| 11123 | A470/50 | 470 | 50V | 13 x 22 | 1.35 | 1.19 | .99 | .89 |
| 2215689 | T200V680UF | 680 | 200V | 25 x 50 | 2.95 | 2.75 | 2.49 | 2.25 |
| 10956 | A1000/25-R | 1000 | 25V | 10 x 20 | .95 | .85 | .75 | .65 |
| 10954 | A1000/25 | 1000 | 25V | 13 x 26 | .95 | .85 | .75 | .65 |
| 93649 | A1000/35 | 1000 | 35V | 13 x 31 | 1.49 | 1.09 | .99 | .85 |
| 147256 | A1000/50 | 1000 | 50V | 16 x 31 | 1.75 | 1.49 | 1.09 | .99 |
| 11033 | A2200/16 | 2200 | 16V | 16 x 40 | 1.09 | .99 | .89 | .79 |
| 93658 | A2200/35 | 2200 | 35V | 16 x 30 | 1.49 | 1.25 | 1.09 | .95 |
| 199479 | A2200J/50 | 2200 | 50V | 18 x 33 | 1.95 | 1.75 | 1.25 | 1.09 |
| 199487 | A3300J/50 | 3300 | 50V | 22 x 43 | 2.49 | 2.09 | 1.85 | 1.59 |
| 2229538 | A4700/16 | 4700 | 16V | 16 x 36 | .99 | .89 | .79 | .69 |
| 93673 | A4700/25 | 4700 | 25V | 19 x 36 | 2.09 | 1.75 | 1.49 | 1.25 |
| 158650 | A4700A25 | 4700 | 25V | 22 x 40 | 1.25 | 1.09 | .89 | .79 |
| 158811 | A4700A50 | 4700 | 50V | 22 x 40 | 2.95 | 2.59 | 2.29 | 2.09 |
| 93681 | A10000/16 | 10000 | 16V | 22 x 51 | 2.95 | 2.39 | 2.09 | 1.89 |
| 2215671 | 16V22000 | 22000 | 16V | 25 x 60 | 2.95 | 2.75 | 2.49 | 2.25 |

*Capacitor dimensions and styles may vary

Passives

JAMECO ValuePro

Resin Dipped Solid Tantalum Capacitors (±10%) 85°C

- Operating temperature range: -55°C to +85°C (+125°C with derating)
- Exceptional temperature stability
- Flame retardant coating
- Designed for entertainment and commercial equipment
- Rated voltage DC: ≤ +85°C
- Moisture-resistant
- Low leakage current

† P/Ns 2178726/2167357/2178785/2178769: ±20%

*Web Code: VAE



| Part No. | Product No. | Value (µF) | Volt (V) | Size (mm)* | Pricing | | | |
|----------|----------------|------------|----------|-----------------|---------|-------|-------|-------|
| | | | | | 1 | 10 | 100 | 500 |
| 545561 | TAP104K035SCS | .10 | 35 | 4.0 x 6.0 x 2.5 | \$.35 | \$.25 | \$.19 | \$.15 |
| 33486 | TM.1/35 | .10 | 35 | 4.5 x 7.0 x 5.2 | .35 | .25 | .19 | .15 |
| 33507 | TM.22/35 | .22 | 35 | 4.5 x 7.0 x 5.0 | .39 | .29 | .25 | .19 |
| 2178726 | TM.33/35/20† | .33 | 35 | 3.4 x 6.5 x 5.0 | .25 | .15 | .12 | .09 |
| 33523 | TM.33/35 | .33 | 35 | 4.5 x 7.0 x 2.5 | .29 | .25 | .19 | .15 |
| 33531 | TM.47/35 | .47 | 35 | 4.5 x 7.0 x 2.7 | .39 | .25 | .19 | .15 |
| 545588 | TAP105K025SCS | 1 | 25 | 4.3 x 7.0 x 2.5 | .35 | .25 | .19 | .15 |
| 154860 | TM1/25 | 1 | 25 | 4.5 x 7.0 x 4.7 | .35 | .25 | .19 | .15 |
| 545596 | TAP105K035SCS | 1 | 35 | 4.3 x 7.0 x 2.5 | .35 | .25 | .19 | .15 |
| 33662 | TM1/35 | 1 | 35 | 4.5 x 7.0 x 2.7 | .35 | .25 | .19 | .15 |
| 545609 | TAP105K050SCS | 1 | 50 | 4.7 x 7.5 x 2.5 | .49 | .39 | .29 | .25 |
| 2167357 | TAP155M035BRS† | 1.5 | 35 | 4.5 x 8.0 x 5.0 | .25 | .19 | .15 | .12 |
| 94001 | TM2.2/16 | 2.2 | 16 | 4.5 x 7.0 x 4.7 | .45 | .35 | .29 | .25 |
| 33736 | TM2.2/35 | 2.2 | 35 | 5.0 x 8.0 x 2.5 | .49 | .45 | .35 | .29 |
| 545941 | TAP335K025SCS | 3.3 | 25 | 4.3 x 7.0 x 2.5 | .49 | .39 | .29 | .25 |
| 94035 | TM4.7/16 | 4.7 | 16 | 5.0 x 8.0 x 2.5 | .39 | .35 | .29 | .25 |
| 546071 | TAP475K025SCS | 4.7 | 25 | 4.3 x 7.0 x 2.5 | .49 | .39 | .29 | .25 |
| 546089 | TAP475K035SCS | 4.7 | 35 | 4.7 x 7.5 x 2.5 | .55 | .45 | .35 | .25 |
| 33806 | TM4.7/35 | 4.7 | 35 | 5.5 x 9.5 x 2.5 | .55 | .45 | .35 | .25 |
| 546185 | TAP685K025SCS | 6.8 | 25 | 4.7 x 7.5 x 2.5 | .49 | .39 | .29 | .25 |

*Capacitor dimensions and styles may vary Note: Above case sizes may have ±20% tolerances

| Part No. | Product No. | Value (µF) | Volt (V) | Size (mm)* | Pricing | | | |
|----------|-----------------|------------|----------|------------------|---------|-------|-------|-------|
| | | | | | 1 | 10 | 100 | 500 |
| 33873 | TM6.8/35 | 6.8 | 35 | 6.5 x 9.0 x 4.7 | \$.59 | \$.49 | \$.39 | \$.29 |
| 545625 | TAP106K010SCS | 10 | 10 | 4.7 x 7.5 x 2.5 | .45 | .39 | .35 | .29 |
| 94060 | TM10/16 | 10 | 16 | 4.6 x 7.5 x 3.2 | .45 | .35 | .25 | .19 |
| 94062 | TM10/16-R | 10 | 16 | 5.0 x 8.0 x 2.5 | .45 | .35 | .25 | .19 |
| 852393 | TAP106K016SCS\$ | 10 | 16 | 5.0 x 12.0 x 2.5 | .39 | .35 | .29 | .25 |
| 545633 | TAP106K020SCS | 10 | 20 | 5.4 x 8.0 x 2.5 | .69 | .59 | .49 | .39 |
| 2178785 | TM10/25/20† | 10 | 25 | 6.0 x 5.0 x 5.0 | .45 | .35 | .25 | .19 |
| 545641 | TAP106K025SCS | 10 | 25 | 5.4 x 8.0 x 2.5 | .59 | .49 | .45 | .39 |
| 94078 | TM10/25 | 10 | 25 | 5.5 x 9.5 x 2.8 | .55 | .45 | .39 | .35 |
| 33689 | TM10/35 | 10 | 35 | 6.5 x 11.0 x 4.7 | 1.19 | .99 | .79 | .65 |
| 33719 | TM15/25 | 15 | 25 | 4.5 x 8.0 x 2.5 | 1.59 | 1.39 | 1.25 | .99 |
| 33751 | TM22/6.3 | 22 | 6.3 | 4.7 x 7.5 x 2.5 | .39 | .29 | .25 | .19 |
| 545852 | TAP226K016SCS | 22 | 16 | 5.4 x 8.0 x 2.5 | .55 | .45 | .35 | .29 |
| 94094 | TM22/16 | 22 | 16 | 5.5 x 9.5 x 4.1 | .69 | .59 | .49 | .39 |
| 2040196 | TAP226K035SCS | 22 | 35 | 8.5 x 12.5 x 2.5 | 1.95 | 1.59 | 1.39 | 1.29 |
| 33785 | TM33/25 | 33 | 25 | 8.5 x 13.0 x 4.7 | 1.75 | 1.49 | 1.25 | 1.09 |
| 94123 | TM47/16 | 47 | 16 | 5.2 x 8.2 x 2.0 | 1.25 | 1.09 | .99 | .89 |
| 546118 | TAP476K016SCS | 47 | 16 | 6.0 x 9.4 x 2.5 | 1.09 | .99 | .89 | .79 |
| 33822 | TM47 | 47 | 25 | 9.5 x 16.5 x 2.5 | 1.95 | 1.75 | 1.49 | 1.25 |
| 597450 | TAP107K016CCS | 100 | 16 | 7.0 x 11.0 x 2.5 | 2.49 | 2.25 | 1.95 | 1.75 |
| 2178769 | TAP157M016CCS† | 150 | 16 | 7.5 x 10.7 x 4.5 | 1.49 | 1.25 | 1.09 | .99 |

\$ Manufacturer: AVX

JAMECO ValuePro

Axial Leaded Ceramic Capacitors (±5 & ±10%)

50, 100 and 200 Volt, NPO and X7R Temperature Coefficient

- Operating temperature range: -55°C to +125°C

| Part No. | Product No. | *Mfr. | Value | Volt (V) | Temp Co-eff. | Tol. | Pricing | | |
|----------|--------------|-------|-------|----------|--------------|------|---------|-------|-------|
| | | | | | | | 1 | 10 | 100 |
| 2229790 | SA102A150JAA | AVX | 15pF | 200 | NPO | 5 | \$.19 | \$.17 | \$.15 |
| 2229802 | SA101A181KAA | AVX | 180pF | 100 | NPO | 10 | .17 | .15 | .12 |
| 2229829 | SA101C471KAA | AVX | 470pF | 100 | X7R | 10 | .19 | .17 | .15 |

| Part No. | Product No. | *Mfr. | Value | Volt (V) | Temp Co-eff. | Tol. | Pricing | | |
|----------|--------------|-------|--------|----------|--------------|------|---------|-------|-------|
| | | | | | | | 1 | 10 | 100 |
| 1069763 | SA101C222KAA | AVX | 2200pF | 100 | X7R | 10 | \$.10 | \$.07 | \$.05 |
| 2229837 | SA101C472KAA | AVX | 4700pF | 100 | X7R | 10 | .19 | .17 | .15 |
| 2229811 | SA205C473KAA | AVX | .047µF | 50 | X7R | 10 | .19 | .17 | .15 |
| 546290 | P10R103K5 | JVP | .01µF | 50 | X7R | 10 | * | .12 | .09 |
| 536542 | P20R104K5 | JVP | .1µF | 50 | X7R | 10 | .45 | .39 | .35 |

* AVX = AVX Corp. | JVP = Jameco ValuePro

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Ceramic Disc, Radial Capacitors & Resonator

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Ceramic Disc Capacitors ($\pm 5\%$, $\pm 10\%$ or $\pm 20\%$) 85°C

*Web Code: HBW

25, 50, 500 and 1000 Volt, Z5U Temperature Coefficient

- Dielectric withstanding voltage: 2.5 times rated volt. for not < 1 sec.
- Operating temperature range: +10°C to +85°C
- Capacitance change over temp. range: +22% to -56%

* Order in multiples of 10

| Part No. | Product No. | *Mfr. | Value | Volt (V) | Tol. | Dia. (mm) | Pricing | | | | |
|----------|-------------|-------|--------|----------|------|-----------|---------|--------|--------|--------|--------|
| | | | | | | | 1 | 10 | 100 | 500 | 1000 |
| 332291 | CD3.3/1000 | JVP | 3.3pF | 1000 | 20 | 5 | \$.25 | \$.19 | \$.15 | \$.12 | \$.09 |
| 15333 | DC10 | JVP | 10pF | 50 | 20 | 5 | * | .08 | .06 | .05 | .04 |
| 15405 | DC22 | JVP | 22pF | 50 | 20 | 5 | * | .08 | .06 | .05 | .04 |
| 332217 | CD33/50 | JVP | 33pF | 50 | 20 | 5 | .25 | .12 | .10 | .08 | .05 |
| 1947028 | DC33ATR * | JVP | 33pF | 500 | 5 | 6 | .25 | .10 | .08 | .06 | .04 |
| 15512 | DC47 | JVP | 47pF | 50 | 20 | 5 | * | .10 | .08 | .06 | .04 |
| 15552 | DC68 | ADT | 68pF | 50 | 5 | 4 | * | .10 | .08 | .06 | .04 |
| 15341 | DC100 | JVP | 100pF | 50 | 20 | 5 | * | .10 | .08 | .06 | .04 |
| 1947044 | DC100TR * | JVP | 100pF | 100 | 10 | 7 | .25 | .15 | .10 | .08 | .06 |
| 1947052 | DC150TR | JVP | 150pF | 100 | 10 | 8 | .25 | .09 | .05 | .03 | .02 |
| 1947087 | DC150ATR | JVP | 150pF | 100 | ✓ | 4 | .25 | .05 | .04 | .03 | .02 |
| 15413 | DC220 | JVP | 220pF | 50 | 20 | 5 | * | .15 | .10 | .08 | .06 |
| 1947132 | DC220TR | JVP | 220pF | 50 | 5 | 8 | .25 | .07 | .04 | .03 | .02 |
| 2162767 | DC220/1000 | ADT | 220pF | 1000 | 10 | 7 | .25 | .15 | .10 | .08 | .06 |
| 1947301 | DC330TR * | JVP | 330pF | 100 | ✓ | 5 | .25 | .09 | .05 | .03 | .02 |
| 15528 | DC470 | JVP | 470pF | 50 | 20 | 5 | * | .10 | .08 | .06 | .04 |
| 1947319 | DC470TR * | JVP | 470pF | 100 | ✓ | 5 | .25 | .10 | .08 | .06 | .04 |
| 2162759 | DC820 | ADT | 820pF | 1000 | 20 | 7 | .25 | .15 | .10 | .08 | .06 |
| 15190 | DC.001 | JVP | .001μF | 50 | 20 | 5 | * | .10 | .08 | .06 | .04 |

*Tape and Reel ✓ +80% to -20%

* Order in multiples of 10

| Part No. | Product No. | *Mfr. | Value | Volt (V) | Tol. | Dia. (mm) | Pricing | | | | |
|----------|---------------|-------|---------|----------|------|-----------|---------|-------|-------|-------|-------|
| | | | | | | | 1 | 10 | 100 | 500 | 1000 |
| 1947343 | DC.001TR | JVP | .001μF | 100 | ✓ | 4 | \$.25 | \$.10 | \$.08 | \$.06 | \$.04 |
| 1947415 | DC.001BTR * | JVP | .001μF | 500 | 10 | 7 | .25 | .10 | .08 | .06 | .04 |
| 1947327 | DC.0022TR * | JVP | .0022μF | 25 | 20 | 4 | .39 | .35 | .29 | .25 | .19 |
| 1947407 | DC.0033 | JVP | .0033μF | 500 | 20 | 9 | * | .15 | .10 | .08 | .06 |
| 2159883 | DC.0033/1000 | ADT | .0033μF | 1000 | 20 | 7 | .39 | .35 | .29 | .25 | .19 |
| 15211 | DC.0047 | JVP | .0047μF | 50 | 20 | 8 | * | .09 | .06 | .05 | .03 |
| 1947335 | DC.0047TR * | JVP | .0047μF | 100 | ✓ | 5 | .25 | .10 | .08 | .06 | .04 |
| 15229 | DC.01 | JVP | .01μF | 50 | 20 | 6 | * | .12 | .09 | .07 | .05 |
| 97375 | DC.01/1K20 | JVP | .01μF | 1000 | 20 | 11 | .29 | .25 | .19 | .15 | .12 |
| 332487 | CD20000/1000 | JVP | .02μF | 1000 | 20 | 14 | .49 | .45 | .35 | .29 | .25 |
| 15245 | DC.022 | JVP | .022μF | 50 | 20 | 3 | .29 | .25 | .18 | .15 | .12 |
| 1947351 | DC.047B | JVP | .047μF | 25 | ✓ | 7 | .25 | .12 | .09 | .06 | .05 |
| 15253 | DC.047 | JVP | .047μF | 50 | 20 | 4 | * | .19 | .15 | .12 | .09 |
| 332507 | CD50000/1000 | JVP | .05μF | 1000 | 20 | 19 | .59 | .49 | .45 | .39 | .35 |
| 151116 | DC.1/25 | JVP | .1μF | 25 | 20 | 5 | * | .15 | .12 | .09 | .07 |
| 2146302 | DC.1-5MM | JVP | .1μF | 50 | 20 | 6 | * | .15 | .12 | .09 | .07 |
| 15270 | DC.1 | JVP | .1μF | 50 | 20 | 7 | * | .19 | .15 | .12 | .09 |
| 2146311 | SC45V1H104Z | JVP | .1μF | 50 | 20 | 11 | * | .19 | .15 | .12 | .09 |
| 332516 | CD100000/1000 | JVP | .1μF | 1000 | 20 | 22 | .59 | .49 | .39 | .35 | .29 |

*Tape and Reel ✓ +80% to -20%



Monolithic Radial Ceramic Capacitors ($\pm 5\%$, $\pm 10\%$ or $\pm 20\%$)

Applications:

- Data processing
- Communications engineering

NPO (COG) Series ($\pm 5\%$)

*Web Code: JBW

* Operating temp. range: -55°C to +125°C

* Order in multiples of 10

| Part No. | Product No. | *Mfr. | Value | Volt. (V) | Size (mm)* W x T x H x L.S. | Pricing | | | |
|----------|---------------|-------|-------|-----------|--------------------------------|---------|--------|--------|--------|
| | | | | | | 1 | 10 | 100 | 500 |
| 2159816 | B37986N5102K1 | ADT | 1nF | 63 | 4.7 x 1.7 x 6.1 x 2.6 | \$.19 | \$.09 | \$.07 | \$.05 |
| 332523 | COG10/100 | JVP | 10pF | 100 | 4 x 2 x 3.2 x 5.1 | .19 | .12 | .08 | .07 |
| 332541 | COG22/100 | JVP | 22pF | 100 | 3.6 x 2.3 x 3.6 x 2.5 | .19 | .12 | .08 | .07 |
| 332567 | COG47/100 | JVP | 47pF | 100 | 3.8 x 2 x 3.3 x 2.5 | .19 | .12 | .08 | .07 |

X7R Series ($\pm 10\%$)

*Web Code: JBX

* Operating temp. range: -55°C to +125°C

* Order in multiples of 10

| Part No. | Product No. | *Mfr. | Value | Volt. (V) | Size (mm)* W x T x H x L.S. | Pricing | | | | |
|----------|---------------|-------|--------|-----------|--------------------------------|---------|--------|--------|--------|--------|
| | | | | | | 1 | 10 | 100 | 500 | 1000 |
| 332583 | MOC100/100 | JVP | 100pF | 100 | 5x5x3x2.5 | * | \$.19 | \$.12 | \$.08 | \$.07 |
| 332612 | MOC470/100 | JVP | 470pF | 100 | 5x5x3x2.5 | * | .19 | .12 | .08 | .07 |
| 544825 | SR151C102KAA | JVP | 1000pF | 100 | 3.8x2.5x3.8x2.5 | * | .19 | .12 | .08 | .07 |
| 544833 | SR151C103KAA | JVP | .01μF | 100 | 3.8x2.5x3.8x2.5 | .29 | .25 | .15 | .09 | .08 |
| 597281 | SR211C103KAA | JVP | .01μF | 100 | 3.8x2.5x3.8x5.1 | .25 | .19 | .12 | .07 | .05 |
| 332647 | MOC10000/100 | JVP | .01μF | 100 | 5x5x3x2.5 | .25 | .19 | .12 | .07 | .05 |
| 332655 | MOC22000/100 | JVP | .022μF | 100 | 5x5x3x2.5 | .29 | .25 | .15 | .09 | .08 |
| 544905 | SR211C333KAA | JVP | .033μF | 100 | 3.8x2.5x3.8x5.1 | .29 | .25 | .15 | .09 | .08 |
| 544913 | SR211C473KAA | JVP | .047μF | 100 | 3.8x2.5x3.8x5.1 | .29 | .25 | .15 | .09 | .08 |
| 544921 | SR215C104KAA | JVP | .1μF | 50 | 3.8x2.5x3.8x5.1 | * | .15 | .12 | .09 | .07 |
| 544884 | SR211C104KAA | JVP | .1μF | 100 | 3.8x2.5x3.8x5.1 | .29 | .25 | .19 | .15 | .12 |
| 332672 | MOC100000/100 | JVP | .1μF | 100 | 5x5x3x2.5 | .29 | .25 | .15 | .12 | .09 |
| 544948 | SR305C474KAA | JVP | .47μF | 50 | 3.8x2.5x3.8x5.1 | .39 | .35 | .29 | .25 | .19 |

* Capacitor dimensions and styles may vary Note: Above case sizes may have ± tolerances

Z5U Series ($\pm 20\%$)

* Operating temp. range: +10°C to +85°C

* Order in multiples of 10

| Part No. | Product No. | *Mfr. | Value | Volt. (V) | Size (mm)* W x T x H x L.S. | Pricing | | | |
|----------|--------------|-------|---------|-----------|--------------------------------|---------|--------|--------|--------|
| | | | | | | 1 | 10 | 100 | 500 |
| 81543 | MD10 | JVP | 10pF | 50 | 3.5 x 2 x 3 x 2.5 | * | \$.12 | \$.09 | \$.07 |
| 81533 | MD22 | JVP | 22pF | 50 | 4 x 2 x 4 x 5.1 | * | .15 | .12 | .09 |
| 81525 | MD100 | JVP | 100pF | 50 | 3.3 x 2 x 3 x 2.5 | * | .15 | .12 | .09 |
| 81517 | MD.001 | JVP | .001μF | 50 | 4.5 x 2 x 3 x 2.5 | * | .15 | .12 | .06 |
| 138202 | MD.0047 | JVP | .0047μF | 50 | 3.3 x 2.2 x 5.5 x 4.6 | * | .15 | .12 | .09 |
| 25507 | MD.01 | JVP | .01μF | 50 | 3.5 x 2 x 3 x 5.1 | * | .19 | .15 | .12 |
| 57621 | MD.047 | JVP | .047μF | 50 | 2.5 x 2.5 x 3 x 2.5 | * | .19 | .15 | .10 |
| 25525 | MD.1 | JVP | .1μF | 50 | 4 x 3 x 5 x 4.6 | .29 | .25 | .19 | .15 |
| 544868 | SR205E104MAA | JVP | .1μF | 50 | 4 x 2.6 x 3.8 x 2.5 | * | .19 | .15 | .10 |
| 25523 | MD.1-R | JVP | .1μF | 50 | 6 x 2 x 4 x 5.1 | * | .19 | .15 | .10 |
| 25540 | MD.22 | JVP | .22μF | 50 | 6 x 2 x 4.5 x 5.1 | .29 | .25 | .19 | .15 |
| 544930 | SR215E334MAA | JVP | .33μF | 50 | 3.8 x 2.5 x 3.8 x 5.1 | .29 | .25 | .19 | .15 |
| 138237 | MD.33 | JVP | .33μF | 50 | 6 x 2 x 8 x 5.1 | .29 | .25 | .19 | .15 |
| 25558 | MD.47 | JVP | .47μF | 50 | 4.5 x 2.5 x 4.5 x 5.1 | .39 | .29 | .19 | .15 |
| 544956 | SR305E105MAA | JVP | .1μF | 50 | 3.8 x 2.5 x 3.8 x 5.1 | .45 | .35 | .25 | .19 |
| 768183 | SR305E105MAR | AVX | .1μF | 50 | 7.6 x 3.8 x 7.6 x 5.1 | .49 | .45 | .39 | .35 |
| 81509 | MD1 | JVP | .1μF | 50 | 6 x 3 x 7 x 5.1 | .49 | .39 | .29 | .25 |

* Capacitor dimensions and styles may vary

Note: Above case sizes may have ± tolerances

Ceramic Resonator

- Frequency accuracy: $\pm 0.5\%$ @ 25°C
- Extended temp. range: -20°C to +85°C
- Withstanding volt. (5 sec): 100V max.

*Web Code: CRS

| Part No. | Product No. | Frequency | Resistance | Pins | 1 | 10 | 100 |
|----------|--------------|-----------|------------|------|--------|--------|--------|
| 324672 | TZTT-20.00MT | 20.0MHz | 30Ω | 3 | \$.49 | \$.45 | \$.39 |



* ADT = Arndt Electronics | AVX = AVX Corp. | JVP = Jameco ValuePro | VSH = Vishay

Capacitors, Varistors, Thermistors & Photocells

Panasonic® Metallized Film Capacitors (±5%)

V Series – Stacked

- Operating temp. range: -40°C to 85°C
- Low dissipation factor: 1% max.

* Web Code: KWJ

| Part No. | Product No. | Value (µF) | Volt. (V) | Dimensions (mm) W x H x Th. x L.S. | Pricing | | | |
|----------|--------------|------------|-----------|---------------------------------------|---------|-------|-------|-------|
| | | | | | 1 | 10 | 100 | 500 |
| 920464 | ECQ-V1103JM | .01 | 100 | 7.5 x 7 x 3.2 x 5 | \$.25 | \$.19 | \$.15 | \$.12 |
| 920510 | ECQ-V1H104JL | .10 | 50 | 7.3 x 4 x 5 x 5 | .39 | .35 | .29 | .25 |
| 920561 | ECQ-V1H224JL | .22 | 50 | 6.8 x 3.6 x 5 x 4.7 | .39 | .35 | .29 | .25 |

Metallized Polyester Film Mylar Capacitors (±10%)

- Non-inductive construction
- Operating temp. range: -40°C to +85°C
- Dissipation factor: 0.01 (at 1kHz)
- Dielectric strength: 150% of rated voltage for 5 sec.

JAMECO ValuePro

* Web Code: KWJ

| Part No. | Product No. | Value (µF) | Volt. (V) | Size (mm)* L x T x H x L.S. | Pricing | | | |
|----------|--------------|------------|-----------|--------------------------------|---------|-------|-------|-------|
| | | | | | 1 | 10 | 100 | 1000 |
| 26833 | MY.001 | .001 | 100 | 7 x 3 x 7 x 5.1 | * | \$.12 | \$.08 | \$.06 |
| 1946164 | MY.0068 | .0068 | 100 | 5.5 x 2.5 x 10 x 5.1 | * | .12 | .08 | .06 |
| 26884 | MY.01 | .01 | 100 | 6 x 3 x 7 x 5.1 | * | .19 | .15 | .12 |
| 2217326 | 103MPR400K | .01 | 400 | 11.6 x 3.4 x 6.55 x 9.9 | .25 | .19 | .13 | .11 |
| 2217334 | EQ-E6103JF | .01 | 630 | 12.3 x 4.1 x 6.85 x 10.3 | .29 | .25 | .17 | .15 |
| 207837 | MY.018/50 | .018 | 50 | 6.1 x 2.6 x 11.3 x 5.1 | * | .09 | .07 | .05 |
| 26905 | MY.022 | .022 | 100 | 6 x 3 x 10 x 5.1 | * | .19 | .15 | .10 |
| 26921 | MY.033 | .033 | 100 | 8 x 4 x 11 x 16.1 | * | .19 | .15 | .10 |
| 2230299 | MY.047-100 | .047 | 100 | 8 x 3.7 x 10 x 7 | .25 | .15 | .12 | .10 |
| 26930 | MY.047 | .047 | 100 | 8 x 4 x 12 x 5.1 | * | .19 | .15 | .12 |
| 2217342 | 0.47MFD-400V | .047 | 400 | 17.6 x 8.5 x 8.9 x 5.7 | .25 | .19 | .13 | .11 |
| 1946172 | MY.068 | .068 | 100 | 8.6 x 4 x 11 x 7.6 | * | .15 | .12 | .07 |
| 2261351 | MER104J1HA0 | .10 | 50 | 7.3 x 4 x 5 x 5 | * | .19 | .15 | .12 |
| 26956 | MY.1 | .10 | 100 | 12.5 x 5 x 9.5 x 7.6 | .29 | .25 | .19 | .15 |
| 93921 | MY.1/250 | .10 | 250 | 12.5 x 5.5 x 10 x 10.1 | .29 | .22 | .17 | .14 |
| 1983424 | MY.1/630 | .10 | 630 | 16.7 x 4.9 x 11 x 14.5 | .45 | .39 | .35 | .29 |
| 26972 | MY.22 | .22 | 100 | 9.2 x 5.1 x 7.8 x 4.7 | .35 | .29 | .25 | .19 |
| 2203101 | MY.22K | .22 | 100 | 12.5 x 6 x 17 x 10 | .29 | .25 | .19 | .15 |
| 2217351 | ECQ-E6224JF | .22 | 630 | 17.5 x 8.1 x 14.7 x 13.7 | .49 | .39 | .29 | .25 |
| 2208930 | QXJ2J224KTP† | .22 | 630 | 23 x 7 x 15 x 21 | .49 | .39 | .29 | .25 |
| 93964 | MY.33/250 | .33 | 250 | 18 x 7 x 12.5 x 15.2 | .49 | .45 | .39 | .29 |
| 2236973 | MER474J1HA0 | .47 | 50 | 7 x 7 x 5 x 5 | .39 | .35 | .29 | .25 |
| 26999 | MY.47 | .47 | 100 | 18 x 6 x 11.5 x 16.1 | .49 | .45 | .35 | .25 |
| 27001 | MY1 | 1.0 | 100 | 18 x 7.5 x 14 x 15.2 | .69 | .59 | .49 | .35 |
| 93981 | MY1/250 | 1.0 | 250 | 26 x 9 x 16 x 15.2 | .29 | .25 | .19 | .15 |
| 1983395 | MY1/400 | 1.0 | 400 | 24.5 x 6.8 x 14.8 x 21.9 | .79 | .65 | .49 | .39 |
| 93999 | MY2.2/250 | 2.2 | 250 | 26 x 9 x 16 x 27.9 | 1.25 | 1.09 | .95 | .69 |
| 2129852 | MKT368† | 6.8 | 100 | 27 x 10 x 18 x 22 | 2.75 | 2.49 | 2.25 | 1.49 |

* Capacitor dimensions and styles may vary † 105°C † Manufacturer: Vishay

JAMECO ValuePro Dipped Silver Mica Capacitors (±5%)

Metallized Polyester Film

- Case type: DM15 • Lead space: 0.23"
- Operating temp. range: -55° to +125°C
- Tolerance: ±5%

* Web Code: HAB

| Part No. | Product No. | Value | Volt. (V) | Size (mm) L x T x H* | 1 | 10 | 100 | 1000 |
|----------|-------------|--------|-----------|----------------------|-------|-------|-------|-------|
| 15991 | DM100 | 10pF | 500 | 11 x 4 x 9 | \$.65 | \$.59 | \$.55 | \$.49 |
| 16037 | DM220 | 22pF | 500 | 11 x 4 x 9 | .65 | .59 | .55 | .49 |
| 16096 | DM470 | 47pF | 500 | 11 x 4 x 9 | .69 | .65 | .59 | .55 |
| 16002 | DM101 | 100pF | 500 | 11 x 4 x 9 | .69 | .65 | .59 | .55 |
| 16088 | DM331 | 330pF | 500 | 11 x 4 x 9 | .85 | .75 | .69 | .65 |
| 16109 | DM471 | 470pF | 500 | 11 x 4 x 9 | .95 | .85 | .75 | .69 |
| 16011 | DM102 | 1000pF | 100 | 11 x 4 x 9 | 1.25 | 1.09 | .99 | .89 |

* Capacitor dimensions and styles may vary † Manufacturer: Cornell Dubille

JAMECO ValuePro Radial Leaded Varistors

- LA equivalent series
- Recognized as transient voltage surge suppressors
- Designed to be operated continuously across AC power lines
- No derating up to 85°C ambient • UL/CSA/VDE approved

* Web Code: CEF

| Part No. | Product No. | Continuous Voltage | | Transient Energy Joules | Max. Clamping Voltage | | Pricing | | |
|----------|-------------|--------------------|--------------------|-------------------------|-----------------------|--------------------|---------|-------|-------|
| | | V _{M(AC)} | V _{M(DC)} | | V _C | I _{PK(A)} | 1 | 10 | 100 |
| 667059 | DNR20D | 130 | 170 | 95 | 340 | 100 | \$.45 | \$.35 | \$.29 |
| 34446 | V130LA10A | 130 | 175 | 38 | 340 | 50 | .35 | .29 | .25 |
| 34462 | V130LA20A | 130 | 175 | 70 | 340 | 100 | .29 | .25 | .19 |
| 34471 | V250LA20 | 250 | 330 | 72 | 650 | 50 | .35 | .29 | .25 |
| 2208796 | DNR20D431K | 275 | 350 | 140 | 710 | 100 | .49 | .39 | .35 |
| 2208809 | DNR20D751K | 460 | 615 | 175 | 1240 | 100 | .39 | .29 | .25 |

JAMECO ValuePro NTC Thermistors

- Typical applications: temperature measurement/control/compensation; power supply fan control; PCB temperature monitoring
- Max. allowable power (@ 250°C): 0.55W
- Thermal dissipation factor: 6.5mW/°C (@ 250°C)
- Resistance value allowable difference: 10%

* Web Code: RBG

| Part No. | Product No. | Resistance (Ω @ 25°C) | B Constant (25/50°C >10%) | Temp. Coef. @ 25°C (%/°C) | Pricing | | |
|----------|-------------|-----------------------|---------------------------|---------------------------|---------|-------|-------|
| | | | | | 1 | 10 | 100 |
| 207483 | NTC-102 | 1k | 3800 | -4.3 | \$.55 | \$.49 | \$.45 |
| 207466 | NTC-302 | 3k | 3900 | -4.4 | .59 | .55 | .45 |
| 207441 | NTC-502 | 5k | 3900 | -4.4 | .55 | .49 | .45 |
| 207037 | NTC-103 | 10k | 4100 | -4.6 | .59 | .55 | .45 |
| 207002 | NTC-503 | 50k | 4200 | -4.7 | .55 | .49 | .45 |

HIGH VOLTAGE METALIZED POLYPROPYLENE FILM CAPACITORS

| Part No. | Description | 1 | 10 | 100 |
|----------|----------------------|-------|--------|--------|
| 2159808 | 2500 volts, 0.0015µF | \$.25 | \$.049 | \$.035 |
| 2192691 | 1000 volts, 1.5µF | 1.95 | 1.75 | 1.49 |

* Web Code: CBG

JAMECO ValuePro Cadmium Sulfide (CdS) Photocells

- Generate variable signal based on detection of light levels
 - Operating temperature: -30°C to +70°C
 - Soldering: 230°C for 3 seconds
- Applications: Auto-focus lenses, exposure meters, contrast controls for TVs, dimmer or light switches, flame detectors, electronic toys, street lamp switches, optocouplers

| Part No. | Cross Ref. No. | Rating | | Resistance (Ω) | | Size (inches) | | Lead Spacing (inches) | Lead Length (inches) | Pricing | | | |
|----------|----------------|--------|-----|----------------|-------|---------------|------|-----------------------|----------------------|---------|--------|--------|--------|
| | | Vp | mW | Dark | Light | A | B | | | 1 | 10 | 100 | 500 |
| 2215451 | NSL4140 | 80 | 50 | 800k | 14k | 0.19 | 0.18 | 0.10 | 1.50 | \$.195 | \$.175 | \$.159 | \$.129 |
| 202366 | CDS0029001 | 150 | 90 | 300k | 4k | 0.14 | 0.17 | 0.10 | 1.02 | 1.49 | 1.35 | 1.19 | .95 |
| 120310 | CDS0029004 | 150 | 90 | 2M | 27k | 0.14 | 0.17 | 0.10 | 1.44 | 1.49 | 1.35 | 1.19 | .95 |
| 202391 | CDS0029203 | 150 | 90 | 10M | 5k | 0.14 | 0.17 | 0.10 | 1.02 | 1.49 | 1.35 | 1.19 | .95 |
| 202382 | CDS0029008 | 150 | 90 | 20M | 10k | 0.14 | 0.17 | 0.10 | 1.02 | 1.49 | 1.35 | 1.19 | .95 |
| 202403 | CDS0018001 | 150 | 100 | 200k | 3k | 0.17 | 0.20 | 0.13 | 1.02 | 1.15 | .99 | .89 | .79 |
| 202420 | CDS0018003 | 150 | 100 | 500k | 16k | 0.17 | 0.20 | 0.13 | 1.02 | 1.15 | .99 | .89 | .79 |
| 202411 | CDS0018006 | 150 | 100 | 5M | 80k | 0.17 | 0.20 | 0.13 | 1.02 | 1.15 | .99 | .89 | .79 |
| 120301 | CDS0037001 | 200 | 150 | 300k | 3k | 0.25 | 0.29 | 0.20 | 1.02 | 1.49 | 1.35 | 1.19 | .95 |
| 202438 | CDS0037004 | 200 | 150 | 500k | 15k | 0.25 | 0.29 | 0.20 | 1.02 | 1.49 | 1.35 | 1.19 | .95 |
| 120299 | CDS0045001 | 350 | 400 | 300k | 8k | 0.37 | 0.43 | 0.30 | 1.44 | 1.79 | 1.59 | 1.45 | 1.19 |
| 202454 | CDS0045003 | 350 | 400 | 1M | 12k | 0.37 | 0.43 | 0.30 | 1.44 | 1.79 | 1.59 | 1.45 | 1.19 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Carbon Film Resistors

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

1/8-Watt Carbon Film Resistor (±5%) Assortment

| Part No. | Cross Ref. | Values | Description (see chart, right) | 1 | 5 |
|----------|------------|-----------------|---|---------|---------|
| 108303 | ASST1830 | x # | 10 ea. of 24 values marked by x and 50 ea. of 6 values marked below by # (540 pcs.) | \$14.95 | \$13.49 |
| 108329 | CAB182R | See description | 1/8 watt resistor component cabinet kit 30 values (540 pcs.) see page 29 | 29.95 | 26.95 |

1/8-Watt Resistor Assortment Values (Ohms)

| | | | | | | | | | |
|-------|-------|-------|--------|--------|--------|--------|-------|--------|--------|
| 10 x | 150 x | 330 x | 680 x | 2.0k x | 3.3k x | 5.6k x | 15k x | 33k x | 470k x |
| 47 x | 220 # | 390 x | 1.0k # | 2.2k x | 4.7k # | 6.8k x | 22k x | 47k x | 1.0M x |
| 100 # | 270 x | 470 x | 1.5k x | 2.7k x | 5.1k x | 10k # | 27k x | 100k # | 10M x |

* Component Kits — Enter Web Code CKS

1/4-Watt Carbon Film Resistors (±5%) RoHS



* Web Code: RCN

Single Value Resistor Pricing: 1/4-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below. Values may not be combined for quantity price breaks. *Values marked below also come in 10 packs.

| Pricing per Resistor (Please order in increments of 10* or 100) | | | | |
|---|--------|-------|-------|-------|
| Specify Part No. & Resistor Value | *10 | 100 | 1000 | 5000 |
| (See Standard Resistor Values Chart below) | \$.099 | \$.04 | \$.03 | \$.02 |

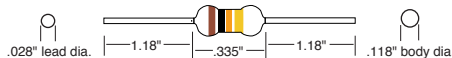
Assortment Pricing: 1/4-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

| Part No. | Cross Ref. No. | Values Included | Description (see chart below) | Pricing | | |
|----------|----------------|-----------------|---|---------|--------|--------|
| | | | | 1 | 5 | 50 |
| 2217511 | PRO0524P | — | 25 ea. 20 values (500 pcs.) | \$9.95 | \$8.95 | \$7.95 |
| 10720 | ASST8-R | — | 5 ea. 70 values (350 pcs.) | 9.95 | 8.95 | 7.95 |
| 2131039 | K/RES-E12 | ■ | 10 ea. 61 values (610 pcs.) | 14.95 | 13.49 | 11.95 |
| 103166 | ASST30-R | ● x | 10 ea. 24 values marked ● and 50 ea. 6 values marked x (540 pcs.) | 14.95 | 13.49 | 11.95 |
| 10664 | ASST27-R | ▲ | 100 ea. 27 values marked (2,700 pcs.) | 34.95 | 31.49 | 28.95 |
| 81832 | — | — | 1/4-watt resistor cabinet kit 30 values, see pg 29 (540 pcs.) | 29.95 | 26.95 | 24.95 |

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|--------------|------|------------|------|
| 690216 | 2.2 | 690427 ■ | 15 | 690620 ▲ x ■ | 100 | 690822 ▲ ● ■ | 680 | 691024 ▲ x ■ | 4.7k | 691227 ▲ ● ■ | 33k | 691420 ■ | 220k | 691622 | 1.5M |
| 690224 | 2.4 | 690435 | 16 | 690638 | 110 | 690831 | 750 | 691032 ▲ ● | 5.1k | 691235 | 36k | 691438 | 240k | 691631 | 1.6M |
| 690232 | 2.7 | 690443 ■ | 18 | 690646 ■ | 120 | 690849 ■ | 820 | 691041 ▲ ● ■ | 5.6k | 691243 ■ | 39k | 691446 ■ | 270k | 691649 | 1.8M |
| 690241 | 3.0 | 690451 | 20 | 690654 | 130 | 690857 | 910 | 691059 | 6.2k | 691251 | 43k | 691454 | 300k | 691657 | 2.0M |
| 690259 | 3.3 | 690460 ■ | 22 | 690662 ▲ ● ■ | 150 | 690865 ▲ x ■ | 1.0k | 691067 ■ | 6.8k | 691260 ▲ ● ■ | 47k | 691462 ■ | 330k | 691665 | 2.2M |
| 690267 | 3.6 | 690478 | 24 | 690671 | 160 | 690873 | 1.1k | 691075 | 7.5k | 691278 | 51k | 691471 | 360k | 691673 | 2.4M |
| 690275 | 3.9 | 690486 ■ | 27 | 690689 ■ | 180 | 690881 ● ■ | 1.2k | 691083 ■ | 8.2k | 691286 ■ | 56k | 691489 ■ | 390k | 691681 | 2.7M |
| 690283 | 4.3 | 690494 | 30 | 690697 | 200 | 690890 | 1.3k | 691091 | 9.1k | 691294 | 62k | 691497 | 430k | 691690 | 3.0M |
| 690291 | 4.7 | 690507 ■ | 33 | 690700 ▲ x ■ | 220 | 690902 ▲ ● ■ | 1.5k | 691104 ▲ x ■ | 10k | 691307 ■ | 68k | 691500 ▲ ● ■ | 470k | 691702 | 3.3M |
| 690304 | 5.1 | 690515 | 36 | 690718 | 240 | 690911 | 1.6k | 691112 | 11k | 691315 | 75k | 691518 | 510k | 691711 | 3.6M |
| 690312 | 5.6 | 690523 ■ | 39 | 690726 ▲ ● ■ | 270 | 690929 ■ | 1.8k | 691121 ■ | 12k | 691323 ■ | 82k | 691526 ■ | 560k | 691717 | 3.9M |
| 690321 | 6.2 | 690531 | 43 | 690734 | 300 | 690937 ▲ ● | 2.0k | 691139 | 13k | 691331 | 91k | 691534 | 620k | 691737 | 4.7M |
| 690339 | 6.8 | 690540 ▲ ● ■ | 47 | 690742 ▲ ● ■ | 330 | 690945 ▲ ● ■ | 2.2k | 691147 ▲ ● ■ | 15k | 691340 ▲ x ■ | 100k | 691542 ■ | 680k | 691745 | 5.1M |
| 690347 | 7.5 | 690558 | 51 | 690751 | 360 | 690953 | 2.4k | 691155 | 16k | 691358 | 110k | 691551 | 750k | 691753 | 5.6M |
| 690363 | 8.2 | 690566 ■ | 56 | 690769 ● ■ | 390 | 690961 ▲ ● ■ | 2.7k | 691163 ■ | 18k | 691366 ■ | 120k | 691569 ■ | 820k | 691761 | 6.2M |
| 690371 | 9.1 | 690574 | 62 | 690777 | 430 | 690970 | 3.0k | 691171 ● | 20k | 691374 | 130k | 691577 | 910k | 691770 | 6.8M |
| 690380 ▲ ● ■ | 10 | 690582 ■ | 68 | 690785 ▲ ● ■ | 470 | 690988 ▲ ● ■ | 3.3k | 691180 ▲ ● ■ | 22k | 691382 ■ | 150k | 691585 ▲ ● ■ | 1.0M | 691788 | 7.5M |
| 690398 | 11 | 690591 | 75 | 690793 | 510 | 690996 | 3.6k | 691198 | 24k | 691391 | 160k | 691593 | 1.1M | 691796 | 8.2M |
| 690401 ■ | 12 | 690603 ■ | 82 | 690806 ■ | 560 | 691008 ■ | 3.9k | 691201 ■ | 27k | 691403 ■ | 180k | 691606 | 1.2M | 691809 | 9.1M |
| 690419 | 13 | 690611 | 91 | 690814 | 620 | 691016 | 4.3k | 691219 | 30k | 691411 | 200k | 691614 | 1.3M | 691817 ▲ ● | 10M |

1/2-Watt Carbon Film Resistors (±5%) RoHS



* Web Code: SCH

Single Resistor Value Pricing: 1/2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below. Values may not be combined for quantity price breaks. *Values marked below also come in 10 packs.

| Pricing per Resistor (Please order in increments of 10* or 100) | | | | |
|---|--------|-------|-------|-------|
| Specify Part No. & Resistor Value | *10 | 100 | 1000 | 5000 |
| (See Standard Resistor Values Chart below) | \$.099 | \$.05 | \$.04 | \$.03 |

Assortment Pricing: 1/2-Watt Carbon Film Resistors (±5%)

Assortments may not be combined for quantity price breaks

| Part No. | Cross Ref. No. | Values Included | Description (see chart below) | 1 | 5 |
|----------|----------------|-----------------|---|---------|---------|
| 107853 | ASST1230 | x # | 10 ea. of 24 values marked by 7 and 50 ea. of 6 values marked by # (540 pcs.) | \$24.95 | \$22.49 |
| 107845 | ASST1227 | ✓ | 100 ea. of 27 values marked by 4 (2,700 pcs.) | 39.95 | 36.95 |
| 107837 | ASST1270 | See description | 5 ea. of 70 values (every other value from 10Ω - 5.6MΩ) (350 pcs.) | 10.95 | 9.95 |
| 107879 | CAB12R | See description | 1/2-watt resistor component cabinet kit - 30 values (540 pcs.), see page 29 | 39.95 | 34.95 |

| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|------------|------|
| 659577 | 1.0 | 659868 | 16 | 661280 | 120 | 661440 | 560 | 661600 ✓ x | 2.7k | 661781 | 13k | 661950 | 68k | 662215 | 820k |
| 659614 | 1.5 | 659884 | 20 | 661301 ✓ x | 150 | 661466 ✓ x | 680 | 661618 | 3.0k | 661790 ✓ x | 15k | 661976 | 82k | 662231 ✓ x | 1.0M |
| 659657 | 2.2 | 659892 | 22 | 661327 | 180 | 661474 | 750 | 661634 ✓ x | 3.3k | 661811 | 18k | 661992 ✓ # | 100k | 662240 | 1.1M |
| 659673 | 2.7 | 661124 | 27 | 661335 | 200 | 661482 | 820 | 661642 | 3.6k | 661829 | 20k | 662004 | 110k | 662282 | 1.6M |
| 659737 | 4.7 | 661141 | 33 | 661343 ✓ # | 220 | 661503 ✓ # | 1.0k | 661651 | 3.9k | 661837 ✓ x | 22k | 662039 | 150k | 662291 | 1.8M |
| 659788 | 7.5 | 661183 ✓ x | 47 | 661351 | 240 | 661520 | 1.2k | 661677 ✓ # | 4.7k | 661845 | 24k | 662071 | 220k | 662311 | 2.2M |
| 659809 | 9.1 | 661191 | 51 | 661360 ✓ x | 270 | 661538 | 1.3k | 661685 ✓ x | 5.1k | 661853 x | 27k | 662098 | 270k | 662320 | 2.4M |
| 659817 ✓ x | 10 | 661204 | 56 | 661378 | 300 | 661546 ✓ x | 1.5k | 661693 ✓ x | 5.6k | 661870 ✓ x | 33k | 662119 | 330k | 662362 | 3.6M |
| 659825 | 11 | 661221 | 68 | 661386 ✓ x | 330 | 661554 | 1.6k | 661714 x | 6.8k | 661896 | 39k | 662127 | 360k | 662397 | 4.7M |
| 659833 | 12 | 661239 | 75 | 661407 x | 390 | 661562 | 1.8k | 661731 | 8.2k | 661909 | 43k | 662135 | 390k | 662426 | 6.2M |
| 659841 | 13 | 661247 | 82 | 661423 ✓ x | 470 | 661571 ✓ x | 2.0k | 661757 ✓ # | 10k | 661917 ✓ x | 47k | 662151 ✓ x | 470k | 662469 | 9.1M |
| 659850 | 15 | 661263 ✓ # | 100 | 661431 | 510 | 661589 ✓ x | 2.2k | 661773 | 12k | 661933 | 56k | 662186 | 620k | 662477 ✓ x | 10M |

* Metal Film Resistors — Enter Web Code MTL

* RC Series 5% SMD Thick Film Resistors — Enter Web Code THF

Resistors, Chokes, Inductors & Potentiometers

1 & 2-Watt Carbon Film Resistors (5%) RoHS

NEW
MARKED IN PINK

Single Resistor Value Pricing: 1 & 2-Watt Carbon Film Resistors (±5%)

To order: Use part number adjacent to ohms in chart below. Values may not be combined for quantity price breaks. *Values marked below also come in 10 packs.

| | Lead Dia. | Body Dia. | Body Length | Lead Length |
|--------|-----------|-----------|-------------|-------------|
| 1 Watt | 0.037" | 0.172" | 0.435" | 1.312" |
| 2 Watt | 0.04" | 0.192" | 0.589" | 1.312" |

| 1-Watt Pricing Per Resistor (Please order in increments of 10* or 100) | | | | * Web Code: TFO | |
|--|---|----------|------|-----------------|--------|
| Specify Part No. & Resistor Value | | | | 10 | 100 |
| (See Standard Resistor Values Chart below) | | | | \$.19 | \$.15 |
| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
| 2237159 | 100 | 2237183 | 470 | 2237204 | 2.2K |
| 2237167 | 220 | 2237191 | 1K | 2237212 | 4.7K |
| 2237175 | 330 | | | 2237239 | 100K |
| 2240147 | 1-watt assortment, 10 ea. of 9 values above, \$13.95 each | | | | |

| 2-Watt Pricing Per Resistor | | | | * Web Code: TFC | |
|--|---|----------|------|-----------------|--------|
| Specify Part No. & Resistor Value | | | | 1 | 10 |
| (See Standard Resistor Values Chart below) | | | | \$.25 | \$.22 |
| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
| 2237301 | 4.7 | 2237263 | 330 | 2237280 | 1K |
| 2237247 | 100 | 2237271 | 470 | 2237298 | 2.2K |
| 2237255 | 220 | | | 2237327 | 100K |
| 2240155 | 2-watt assortment, 10 ea. of 9 values above, \$14.95 each | | | | |

Dual-In-Line "DIP" Resistor Networks ±2% (G)

16-Pin (140mW/Resistor) ±2%

- Max. operating voltage: 100V
- Temp. coefficient: ±100ppm/°C
- Operating temperature: -55°C to +125°C
- Insulation res.: 10,000MΩ min.

| | 1 | 10 | 100 | 500 |
|----------------|--------|--------|--------|--------|
| Pricing | \$.59 | \$.55 | \$.49 | \$.45 |
| Orange Pricing | .25 | .07 | .05 | .04 |

* Web Code: GAP

| Part No. | Ohms | Part No. | Ohms |
|----------|------|----------|--------|
| 108556 | 100 | 108599 | 1.0k |
| 108564 | 220 | 87601 | * 1.0k |
| 108572 | 330 | 108610 | 4.7k |
| 1158942 | 330 | 108628 | 10k |
| 108581 | 470 | | |

* Bussed

* SIP Resistor Networks — Enter Web Code WRN

Jameco ValuePro High-Current Toroid Inductors

J.W. Miller 2100/2300 Series Value Equivalents

- Low radiation
- Low core loss
- Operating temperature: -55°C to +105°C

* Web Code: KBY

| Part No. | Cross Ref. | Description | L (μH) @ 1kHz | Horizontal | Vertical |
|----------|------------|-------------|---------------|------------|----------|
| 371549 | 2105-H | Horizontal | 22 | \$1.25 | \$1.09 |
| 371581 | 2109-H | Horizontal | 47 | 1.25 | 1.09 |
| 371856 | 2112-V | Vertical | 100 | 1.49 | 1.25 |
| 387268 | 2316-V | Vertical | 220 | 1.95 | 1.75 |
| 371979 | 2124-V | Vertical | 1000 | 1.95 | 1.75 |

Bourns® 2W 7/8" 10-Turn WW Precision Pots

- Shaft diameter: 22mm (7/8")
- Tolerance: 5% & 10%
- Insulation res. @ 500VDC: 1000MΩ (Bourns, Vishay, BI Tech), 100MΩ (JVP)
- Operating temperature range: +1°C to +125°C (Bourns), -55°C to +125°C (JVP)
- Solder lug panel mount

* Web Code: JBE

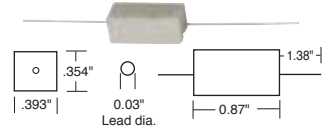
| Part No. | Manufacturer | Mfr. Part No. | Ohms | Power Rating | Tolerance | Bushing | 1 | 10 | 100 |
|----------|-----------------|----------------|------|--------------|-----------|---------|--------|--------|--------|
| 2198663 | BI Technologies | 7276R500L-25 | 500 | 2W @ 25°C | 5% | Plastic | \$7.95 | \$6.95 | \$6.25 |
| 2198330 | BI Technologies | 8106R1K-L-25 | 1K | 2W @ 70°C | 10% | Metal | 7.95 | 6.95 | 6.25 |
| 2177846 | ValuePro | 3540S-2-102 | 1K | 2W @ 70°C | 5% | Metal | 9.95 | 8.95 | 7.95 |
| 2194806 | BI Technologies | 8146R2K-L-25CT | 2K | 2W @ 70°C | 10% | Metal | 7.95 | 6.95 | 6.25 |
| 2231144 | Vishay | 534-1-1502 | 5K | 2W @ 70°C | 5% | Metal | 10.95 | 9.95 | 8.95 |
| 2111880 | ValuePro | 3540S-1-502 | 5K | 2W @ 70°C | 5% | Metal | 12.95 | 11.95 | 10.95 |
| 855818 | Bourns | 3590S-2-502 | 5K | 2W @ 40°C | 5% | Metal | 13.95 | 12.49 | 10.95 |
| 2201463 | BI Technologies | 7297R10K-L-25 | 10K | 2W @ 25°C | 5% | Plastic | 8.95 | 7.95 | 6.95 |
| 2177854 | ValuePro | 3590S-1-103 | 10K | 2W @ 70°C | 5% | Metal | 9.95 | 8.95 | 7.95 |
| 2231136 | Vishay | 534-1-1-103 | 10K | 2W @ 70°C | 5% | Metal | 10.95 | 9.95 | 8.95 |
| 183521 | Bourns | 3540S-1-103L | 10K | 2W @ 70°C | 5% | Metal | 22.95 | 20.95 | 18.95 |
| 2231312 | Vishay | 536-1-1-203 | 20K | 2W @ 70°C | 5% | Plastic | 10.95 | 9.95 | 8.95 |



5-Watt Wirewound Resistors (5%)

Horizontal Mount/Axial Lead

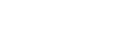
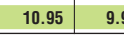
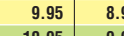
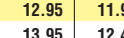
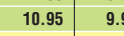
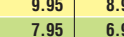
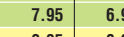
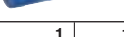
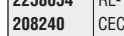
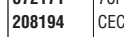
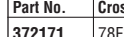
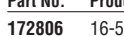
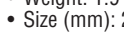
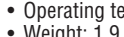
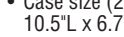
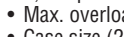
- Temperature range: -55°C to +155°C
- Moisture resistant
- High temperature stability
- Exceptionally small, sturdy and reliable



| See resistor value chart on right | | | | 1 | 10 | 100 | 500 |
|-----------------------------------|------|----------|------|----------|--------|----------|--------|
| Pricing | | | | \$.39 | \$.35 | \$.29 | \$.25 |
| Part No. | Ohms | Part No. | Ohms | Part No. | Ohms | Part No. | Ohms |
| 659956 | 0.10 | 660201 | 2 | 660447 | 20 | 660877 | 1k |
| 659964 | 0.15 | 660279 | 4 | 660480 | 27 | 661010 | 4.7k |
| 660050 | 0.5 | 660295 | 5 | 660551 | 50 | 661036 | 10k |
| 660130 | 1 | 660375 | 10 | 660623 | 100 | | |

* 2W/5W/9W/10W Wirewound Resistors — Enter Web Code TCH

125mW SIP Bussed Conformal Coated Resistor Network



| Pricing | | | | 1 | 10 | 100 | 500 |
|----------|------|------|-----------|----------|--------|--------|-----------|
| | | | | \$.29 | \$.25 | \$.19 | .15 |
| Part No. | Pins | Ohms | Tol. (±%) | Part No. | Pins | Ohms | Tol. (±%) |
| 268032 | 6 | 10k | 2 | 97877 | 10 | 1.0k | 2 |
| 97826 | 8 | 10k | 2 | 97893 | 10 | 2.2k | 2 |
| 97851 | 10 | 330 | 2 | 24660 | 10 | 4.7k | 2 |
| 97869 | 10 | 470 | 2 | 24643 | 10 | 10k | 2 |
| | | | | 98095 | 10 | 100k | 2 |

* Web Code: WRN

0805 (1/8W) Chip Resistor Assortment (±5%)

* Web Code: CKS

144 Values, 50 pcs. each

- 7,200 pieces total
- Max. overload volt.: 200V
- Case size (2 cases): 10.5"L x 6.7"W x 1.7"T
- Operating temp.: 70°C
- Weight: 1.9 lbs.
- Size (mm): 2.0L x 1.25W x 0.5Thick

Includes: Case with labels

| Part No. | Product No. | 1 | 5 |
|----------|-------------|---------|---------|
| 172806 | 16-500 | \$59.95 | \$54.95 |

Resistance Value Chart:

| | | | | | | | | |
|-----|----|-----|------|------|-----|------|------|------|
| 2.2 | 12 | 91 | 510 | 3.0k | 16k | 75k | 470k | 2.7M |
| 2.4 | 20 | 100 | 560 | 3.3k | 18k | 82k | 510k | 3.0M |
| 2.7 | 22 | 120 | 620 | 3.6k | 20k | 91k | 560k | 3.3M |
| 3.0 | 24 | 150 | 680 | 3.9k | 22k | 100k | 620k | 3.6M |
| 3.3 | 27 | 160 | 750 | 4.3k | 24k | 120k | 680k | 3.9M |
| 3.9 | 30 | 180 | 820 | 4.7k | 27k | 150k | 750k | 4.3M |
| 4.3 | 33 | 200 | 910 | 5.1k | 30k | 160k | 820k | 4.7M |
| 4.7 | 39 | 220 | 1.0k | 5.6k | 33k | 180k | 910k | 5.1M |
| 5.1 | 43 | 240 | 1.2k | 6.2k | 36k | 200k | 1.0M | 5.6M |
| 5.6 | 47 | 270 | 1.5k | 6.8k | 39k | 240k | 1.2M | 6.2M |
| 6.2 | 51 | 300 | 1.6k | 7.5k | 43k | 270k | 1.5M | 6.8M |
| 6.8 | 56 | 330 | 1.8k | 8.2k | 47k | 300k | 1.6M | 7.5M |
| 7.5 | 62 | 360 | 2.0k | 9.1k | 51k | 330k | 1.8M | 8.2M |
| 8.2 | 68 | 390 | 2.2k | 10k | 56k | 360k | 2.0M | 9.1M |
| 9.1 | 75 | 430 | 2.4k | 12k | 62k | 390k | 2.2M | 10M |
| 10 | 82 | 470 | 2.7k | 15k | 68k | 430k | 2.4M | |

Jameco ValuePro Chokes

J.W. Miller Series Equivalents

| | | | | Fig. 1 | Fig. 2 | Fig. 3 |
|----------|----------------|------------------------|------|----------------------------|----------|--------|
| | | | | * Order in multiples of 10 | | |
| Part No. | Cross Ref. No. | Description | Fig. | Inductance Value (μH) ±10% | Pricing | |
| 372171 | 78F100J-VP | Conformal coated axial | 1 | 10 | * \$.19 | \$.15 |
| 208194 | CEC-101J | Conformal coated | 1 | 100 | * .19 | .15 |
| 372269 | 78F221J-VP | Conformal coated axial | 1 | 220 | * .19 | .15 |
| 2258654 | RL-1256-2-470 | Epoxy coated core | 2 | 470 | 1.09 | .99 |
| 208240 | CEC-102J | Conformal coated | 1 | 1000 | .35 | .29 |
| 642741 | 5800-103 | High current axial RF | 3 | 10000 | .69 | .55 |
| 642927 | 5900-103 | High current axial RF | 3 | 10000 | .99 | .89 |

* Web Code: WBG

Hi-Power Fixed Ceramic Resistor

- 2 ohms
- 25 watts
- 5% tolerance
- Size: 3.0"L x 1.0"W x 1.56"H

Includes: Mounting bracket

| Part No. | Mfr. Part No. | 1 | 10 | 100 |
|----------|----------------|--------|--------|--------|
| 2160016 | 25/20FC2R0-813 | \$1.75 | \$1.45 | \$1.29 |

Pocket Trim Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade

| Part No. | Description | Size | 1 | 10 | 100 |
|----------|--------------|-------|--------|--------|--------|
| 153315 | Trimmer tool | 5.2"L | \$2.49 | \$2.25 | \$1.95 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

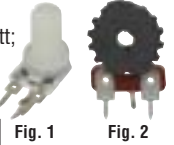
Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Potentiometers

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

JAMECO ValuePro 1/4W Vertical Mount Trimmer

- 15mm thick • Tolerance: $\pm 20\%$
- Power rating: 200VAC – 1/2 watt; 350VDC – 1/4 watt
- Total rotation: $260^\circ \pm 5^\circ$ for 350VDC rated $250^\circ \pm 20^\circ$ for 200VAC rated



| Part No. | Fig. | Ohms | Volt. Rating | 1 | 10 | 100 |
|----------|------|------|--------------|-------|-------|-------|
| 2190611 | 1 | 100 | 200VAC | \$.39 | \$.29 | \$.19 |
| 2190629 | 1 | 1k | 200VAC | .55 | .45 | .35 |
| 94693 | 2 | 1k | 350VDC | .65 | .59 | .55 |
| 35503 | 2 | 2.5k | 350VDC | .65 | .59 | .55 |
| 94714 | 2 | 10k | 350VDC | .65 | .59 | .55 |
| 94722 | 2 | 50k | 350VDC | .65 | .59 | .55 |
| 2190645 | 1 | 100k | 200VAC | .49 | .39 | .35 |
| 94731 | 2 | 100k | 350VDC | .65 | .59 | .55 |

1/2-Watt, 3/8" Square, Single-Turn

- Trimmer w/ shaft • 3 positions
- Shaft length: 0.32"
- 0.1" lead spacing



| Part No. | Mfr. Part No. | Ohms | 1 | 10 | 100 |
|----------|---------------|------|--------|--------|--------|
| 2161385 | 18STS500 | 500 | \$1.35 | \$1.19 | \$1.09 |
| 2118803 | 18STS1K | 1k | 1.35 | 1.19 | 1.09 |
| 2161393 | 18STS5K | 5k | 1.35 | 1.19 | 1.09 |
| 2118791 | 18STS10K | 10k | 1.35 | 1.19 | 1.09 |
| 2161406 | 18STS100K | 100k | 1.35 | 1.19 | 1.09 |
| 2161414 | 18STS500K | 500k | 1.35 | 1.19 | 1.09 |
| 2161422 | 18STS1M | 1M | 1.35 | 1.19 | 1.09 |

60mW 16mm Audio Taper

- 0.335" smooth shaft surface
- 0.25"Dia. • Solder lugs
- Max voltage: 150VAC
- 300° rotation angle ($\pm 5^\circ$)
- Insulation resistance: 100M Ω @ 500VDC



| Shaft Length | 1 | 10 | 100 |
|---------------|--------|-------|-------|
| 0.60" pricing | \$1.09 | \$.99 | \$.85 |
| 0.65" pricing | 1.95 | 1.75 | 1.49 |

| Part No. | Manufacturer Part No. | Shaft Length | Ohms |
|----------|---------------------------|--------------|------|
| 2227014 | RV16AF-10-15R1-30A100K | 0.60" | 100k |
| 2227006 | RV16AF-10-15R1-30A250K | 0.60" | 250k |
| 2227153 | RV16AF-10-15R1-30A1M | 0.60" | 1M |
| 2227137 | RV16AF-10-165R1-A25K | 0.65" | 25k |
| 2227090 | RV16AF-10BL-165R1-A100K | 0.65" | 100k |
| 2227081 | RV16AF-10BL-165R1-A250K | 0.65" | 250k |
| 2227102 | RV16AF-10BL-165R1-30A500K | 0.65" | 500k |
| 2227145 | RV16AF-10BL-165R1-30A1M | 0.65" | 1M |

1/8, 1/4 & 1/2W 24mm Audio Taper

- Body diameter: 0.945"
- Shaft dia.: 0.25"
- Shaft length: 0.335"
- Rotational angle: $300^\circ (\pm 5^\circ)$
- Max. voltage: 250V • $\pm 20\%$



Use 2182602 for additional panel mounting hardware, pg 78

| Power Rating | 1 | 10 | 100 |
|--------------|--------|--------|--------|
| 1/8 watt* | \$4.95 | \$4.49 | \$3.95 |
| 1/4 watt✓ | 1.55 | 1.39 | 1.25 |
| 1/2 watt# | 1.95 | 1.75 | 1.59 |

| Part No. | Manufacturer Part No. | Audio Type | Ohms |
|----------|----------------------------|------------|------|
| 255426 | RV24AF-10-15R1-A14 | Single✓ | 10k |
| 2181466 | RV24BF-10-15R1-A10K | Dual# | 10k |
| 255434 | RV24AF-10-15R1-A54 | Single✓ | 50k |
| 255442 | RV24AF-10-15R1-A15 | Single✓ | 100k |
| 2227049 | RV24YN20S15A254K (slotted) | Single* | 100k |
| 2227022 | RV24YN20S15A254K (slotted) | Dual* | 100k |
| 255451 | RV24AF-10-15R1-A55 | Single✓ | 500k |
| 255469 | RV24AF-10-15R1-A16 | Single✓ | 1M |
| 2227031 | RV24YN20SC105 (slotted) | CCW* | 1M |

1/5 & 1/8-Watt 16mm Linear Taper ($\pm 20\%$)

- Rated voltage: 200V
- Shaft diameter: 0.250" • Body dia.: 0.63"
- Insulation resistance: >100M Ω @ 500VDC



| Qty. | 1 | 10 | 100 |
|---------|--------|--------|--------|
| Pricing | \$1.39 | \$1.19 | \$1.05 |

1/5-Watt (Use 2182688 for additional PNL MTG hardware)

- Shaft diameter: 0.25" • Body diameter: 0.63"

| Part No. | Manufacturer Part No. | Shaft Length | Ohms |
|----------|-----------------------|--------------|------|
| 286249 | RV16AF-10-15R1-B13 | 0.335" | 1k |
| 286265 | RV16AF-10-15R1-B53 | 0.335" | 5k |
| 286273 | RV16AF-10-15R1-B14 | 0.335" | 10k |
| 286282 | RV16AF-10-15R1-BF4 | 0.335" | 25k |
| 286302 | RV16AF-10-15R1-B15 | 0.335" | 100k |
| 286337 | RV16AF-10-15R1-B16 | 0.335" | 1M |
| 163563 | PMD401K (10 detents) | 0.605" | 10k |

1/8-Watt (Use 2182688 for additional PNL MTG hardware)

- Rotational angle: $300^\circ (\pm 5^\circ)$ • Rotation life: 15k cycles

| Part No. | Manufacturer Part No. | Shaft Length | Ohms |
|----------|-----------------------|--------------|------|
| 286206 | RV16AF-10-20R1-B14 | 0.531" | 10k |
| 286214 | RV16AF-10-20R1-B54 | 0.531" | 50k |

JAMECO ValuePro 1/2-Watt 24mm Linear Taper ($\pm 10\%$)

- Temp. range: -55°C to $+125^\circ\text{C}$
- Non-rotational key, non-slotted shaft end
- Maximum panel thickness: 0.1875"
- Mounting hole: 0.3125"
- Shaft dia.: 0.25" • Shaft length: 0.355"



Includes: Mounting hardware
Use 2182602 for additional panel mounting hardware (except * 2133675 – use 2182611), pg 78

| Qty. | 1 | 10 | 100 | 500 |
|----------------|--------|--------|--------|-------|
| Pricing | \$1.35 | \$1.19 | \$1.09 | \$.95 |
| Orange Pricing | .75 | .65 | .55 | .45 |

| Part No. | Cross Ref. | Ohms | Part No. | Cross Ref. | Ohms |
|----------|------------|------|----------|------------|------|
| 29050 | P1K | 1k | 29082 | P10K | 10k |
| 2133675 | B1K* | 1k | 29103 | P100K | 100k |
| 29197 | P5K | 5k | 29066 | P1MEG | 1M |

*Mounting hole: 0.375"; shaft length: 0.375"

2-Watt 22mm Linear Taper ($\pm 10\%$)

- 2W @ 70°C ambient • Non-rotational key
- Temp. range: -55°C to $+120^\circ\text{C}$
- Shaft length: 0.875" • Shaft dia.: 0.25"
- Mounting hole: 0.375" • Slotted shaft
- Max. panel thickness: 0.25"



Includes: Mounting hardware
Use 2182611 for additional panel mounting hardware, pg 78

| Qty. | 1 | 10 | 50 |
|----------------|--------|--------|--------|
| Pricing | \$9.95 | \$8.95 | \$7.95 |
| Orange Pricing | 2.95 | 2.65 | 2.39 |

| Part No. | Military No. | Ohms | Part No. | Military No. | Ohms |
|----------|--------------|------|----------|--------------|------|
| 241568 | RV4NAYSD101A | 100 | 2160526 | R24KM-B5K* | 5k |
| 13936 | RV4NAYSD102A | 1k | 13952 | RV4NAYSD103A | 10k |
| 13995 | RV4NAYSD502A | 5k | 2160518 | R24KM-B10K* | 10k |

*Jameco ValuePro

Slide Potentiometer

- 200mW rating
- 15,000 cycle slide life



| Part No. | Length | Ohms | 1 | 10 | 100 |
|----------|--------|------|--------|--------|--------|
| 2237731 | 20mm | 5k | \$1.75 | \$1.49 | \$1.25 |
| 2237749 | 20mm | 10k | 1.75 | 1.49 | 1.25 |
| 2237757 | 30mm | 10k | 1.95 | 1.75 | 1.49 |
| 2203961 | 60mm | 10k | 1.95 | 1.75 | 1.59 |

1/2-Watt 24mm Linear Taper ($\pm 20\%$)

- Rotational angle: $300^\circ (\pm 5^\circ)$
- Max. voltage: 500V • Shaft Diameter: 0.25"
- Withstanding voltage for 1 minute: 500VAC

Use 2182602 for additional panel mounting hardware



| Qty. | 1 | 10 | 100 |
|---------|--------|--------|--------|
| Pricing | \$1.55 | \$1.39 | \$1.25 |

| Part No. | Manufacturer Part No. | Shaft Length | Ohms |
|----------|-----------------------|--------------|------|
| 255477 | RV24AF-10-15R1-B52 | 0.335" | 500 |
| 255485 | RV24AF-10-15R1-B13 | 0.335" | 1k |
| 255493 | RV24AF-10-15R1-B23 | 0.335" | 2k |
| 255514 | RV24AF-10-15R1-B53 | 0.335" | 5k |
| 255522 | RV24AF-10-15R1-B14 | 0.335" | 10k |
| 255531 | RV24AF-10-15R1-BF4 | 0.335" | 25k |
| 255549 | RV24AF-10-15R1-B54 | 0.335" | 50k |
| 255557 | RV24AF-10-15R1-B15 | 0.335" | 100k |
| 255565 | RV24AF-10-15R1-BF5 | 0.335" | 250k |
| 255573 | RV24AF-10-15R1-B55 | 0.335" | 500k |
| 255582 | RV24AF-10-15R1-B16 | 0.335" | 1M |
| 264402 | RV24AF-10-20K-B53 | 0.531" | 5k |
| 264411 | RV24AF-10-20K-B14 | 0.531" | 10k |
| 264437 | RV24AF-10-20K-B15 | 0.531" | 100k |
| 255662 | RV24AF-10-40R1-B14 | 1.32" | 10k |
| 255696 | RV24AF-10-40R1-B15 | 1.32" | 100k |

1/2-Watt 24mm Linear Taper with SPST Switch ($\pm 20\%$)

- Shaft diameter: 0.25"
- Maximum voltage: 500V
- Terminal type: solder lugs
- Switch rating: 125VAC, 1A
- Rotational angle: $300^\circ (\pm 5^\circ)$



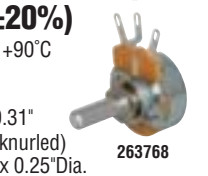
Use 2182602 for additional panel mounting hardware, pg 78

| Qty. | 1 | 10 | 100 |
|---------|--------|--------|--------|
| Pricing | \$2.09 | \$1.95 | \$1.75 |

| Part No. | Manufacturer Part No. | Shaft Length | Ohms |
|----------|------------------------|--------------|------|
| 263768 | RV24A01F-10-15R1-B13 | 0.335" | 1k |
| 263792 | RV24A01F-10-15R1-B14 | 0.335" | 10k |
| 263822 | RV24A01F-10-15R1-B100K | 0.335" | 100k |

JAMECO ValuePro 5-Watt 24mm Linear Taper Wirewound ($\pm 20\%$)

- Temperature range: -10°C to $+90^\circ\text{C}$
- Max. panel thickness: 0.1"
- Mounting hole: 2231363: 0.362"L; 140514: 0.31"
- Shaft size: 2231363: 0.35"L (knurled) 140514: 0.8"L (0.6" smooth) x 0.25"Dia.



Use 2182602 for additional panel mounting hardware, pg 78

| Part No. | Watts | Ohms | 1 | 10 | 100 |
|----------|-------|------|--------|--------|--------|
| 2231363 | 5 | 25 | \$2.95 | \$2.49 | \$1.95 |
| 140514 | 5 | 100 | 3.95 | 3.59 | 3.29 |

2-Watt 28mm Single-Turn Linear Taper ($\pm 10\%$)

- Power rating: 2 watts at 70°C
- Mechanical rotation: 314°
- Rotational life: 25,000 cycles
- Operating temp.: -65°C to $+125^\circ\text{C}$
- Shaft size: 1.0"L x 0.25"Dia.
- Mounting hole: 0.37" • Mil style RV4



Use 2182611 for additional panel mounting hardware, pg 78

| Part No. | Cross Ref. | Ohms | 1 | 10 | 50 |
|----------|------------|------|--------|--------|--------|
| 2172826 | K1716 | 5k | \$3.95 | \$3.59 | \$3.25 |

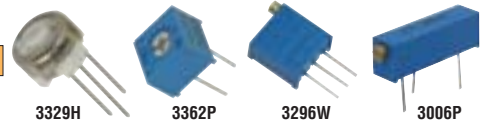
*Linear Taper Potentiometers — Enter Web Code JAE

JAMECO ValuePro

Cermet Trimmer Potentiometers

NEW
MARKED IN PINK

* Web Code: XGU



Bourns®, Vishay/Spectrol, Bitech (Beckman) Series Equivalents

- Resistance tolerance: $\pm 10\%$
- Insulation resistance: 1000M Ω min. (500VDC)
- Absolute min. res.: 2Ω • Temp. range: -55°C to 125°C

Bourns® 3266 Series, Vishay/Spectrol 64W Series

- 1/4 watt, 1/4" square, 12-turn top adjust, $\pm 10\%$

* Web Code: XGT

| Part No. | Series | Value (Ω) | 1 | 10 | 100 |
|----------|----------|--------------------|------|------|-----|
| 2194929 | 64WR2K | 2k | .79 | .69 | .59 |
| 254669 | 3266W | 5k | .99 | .89 | .79 |
| 254677 | 3266W | 10k | 1.25 | 1.09 | .99 |
| 254714 | 3266W | 100k | 1.25 | 1.09 | .99 |
| 2194911 | 64WR100K | 100k | .69 | .59 | .49 |
| 1156331 | 3266X | 10k | .99 | .89 | .79 |

Bourns® 3329 Series, Vishay/Spectrol 62-3, 62-1 Series

- 1/2 watt, 1/4" round, single-turn top adjust, $\pm 10\%$

* Web Code: XGZ

| Part No. | Series | Value (Ω) | 1 | 10 | 100 |
|----------|--------|--------------------|-----|-----|-----|
| 1157907 | 3329H | 1k | .49 | .39 | .29 |
| 854487 | 3329H | 20k | .49 | .39 | .29 |
| 95441 | 3329P | 1k | .99 | .89 | .79 |
| 95484 | 3329P | 100k | .99 | .89 | .79 |

Bourns® 3362 Series, Vishay/Spectrol 76P Series

- 1/2 watt, 1/4" square, single-turn, $\pm 10\%$

* Web Code: XGX

| Part No. | Series* | Value (Ω) | 1 | 10 | 100 |
|----------|-------------|--------------------|-----|-----|-----|
| 770371 | 3362HB | 10k | .89 | .79 | .69 |
| 182810 | 3362P | 500 | .89 | .79 | .69 |
| 253982 | 3362P | 1k | .89 | .79 | .69 |
| 182829 | 3362P | 5k | .89 | .79 | .69 |
| 182837 | 3362P | 10k | .89 | .79 | .69 |
| 254002 | 3362P | 20k | .89 | .79 | .69 |
| 254028 | 3362P | 50k | .89 | .79 | .69 |
| 254036 | 3362P | 100k | .89 | .79 | .69 |
| 254044 | 3362P | 500k | .89 | .79 | .69 |
| 254115 | 3362P | 1M | .89 | .79 | .69 |
| 2133780 | 3362U-1-105 | 1M | .49 | .39 | .29 |
| 254204 | 3362W | 10k | .75 | .65 | .55 |

* H,P&U: top adjustment; X&W: side adjustment B Mfr.: Bourns

Bourns® 3386 Spectrol 63, BI Tech 72 Series

- 1/2 watt, 3/8" square, single-turn, $\pm 10\%$

| Part No. | Series* | Value (Ω) | 1 | 10 | 100 |
|----------|---------|--------------------|------|------|-----|
| 770646 | 3386B | 50 | .69 | .59 | .49 |
| 854920 | 3386F | 100k | .89 | .79 | .69 |
| 254297 | 3386P | 100 | .89 | .79 | .69 |
| 43123 | 3386P | 500 | .99 | .89 | .79 |
| 42964 | 3386P | 1k | 1.25 | 1.09 | .99 |
| 43043 | 3386P | 2k | 1.25 | 1.09 | .79 |
| 43078 | 3386P | 5k | 1.25 | 1.09 | .99 |
| 43001 | 3386P | 10k | 1.25 | 1.09 | .79 |
| 43051 | 3386P | 20k | 1.25 | 1.09 | .79 |
| 254377 | 3386P | 25k | 1.25 | 1.09 | .99 |
| 43107 | 3386P | 50k | 1.25 | 1.09 | .79 |
| 43027 | 3386P | 100k | .99 | .89 | .79 |
| 63212 | 3386P | 500k | .99 | .89 | .79 |
| 42981 | 3386P | 1M | 1.25 | 1.09 | .99 |
| 771032 | 3386X | 5k | .79 | .69 | .59 |
| 264701 | 3386X | 50k | .99 | .89 | .79 |

* F&P: top adjustment; B,W&X: side adjustment

Bourns® 3296 Spectrol 64, BI Tech 64 Series, Weston 850

- 1/2 watt, 3/8" rectangular, 25-turn, $\pm 10\%$, 0.17" thick

* Web Code: XGB

| Part No. | Series* | Value (Ω) | 1 | 10 | 100 |
|----------|---------|--------------------|------|------|------|
| 2037982 | 3296P | 1k | .79 | .69 | .59 |
| 769354 | 3296P | 5k | .99 | .89 | .79 |
| 853513 | 3296P | 10k | .99 | .89 | .79 |
| 769320 | 3296P | 1M | .99 | .89 | .79 |
| 853759 | 3296W | 500 | 1.25 | 1.09 | .99 |
| 853556 | 3296W | 1k | 1.75 | 1.49 | 1.25 |
| 853775 | 3296W | 5k | 1.49 | 1.25 | 1.09 |
| 241146 | 3296W | 10k | 1.49 | 1.25 | 1.09 |
| 853572 | 3296W | 10k | 1.75 | 1.49 | 1.25 |
| 853679 | 3296W | 20k | 1.25 | 1.09 | .99 |
| 853791 | 3296W | 50k | 1.49 | 1.25 | 1.09 |
| 853599 | 3296W | 100k | 1.75 | 1.49 | 1.25 |
| 240725 | 3296Y | 100 | 1.25 | 1.09 | .99 |
| 240777 | 3296Y | 5k | 1.25 | 1.09 | .99 |

* P: side adjustment; W&Y: top adjustment B Mfr.: Bourns

Bourns® 3299 Series, Vishay/Spectrol 68W Series

- 1/2W, 3/8" square, 25-turn top adj., $\pm 10\%$, 0.21"W, 0.21" thick

* Web Code: XGW

| Part No. | Series | Value (Ω) | 1 | 10 | 100 |
|----------|--------|--------------------|------|------|------|
| 241082 | 3299W | 100 | 1.25 | 1.09 | .99 |
| 241111 | 3299W | 1k | 1.49 | 1.25 | 1.09 |
| 241139 | 3299W | 5k | 1.25 | 1.09 | .99 |
| 238633 | 3299W | 20k | 1.25 | 1.09 | .99 |
| 241200 | 3299W | 50k | 1.25 | 1.09 | .99 |
| 241189 | 3299W | 100k | 1.49 | 1.25 | 1.09 |
| 241219 | 3299W | 1M | 1.49 | 1.25 | 1.09 |
| 240602 | 3299Y | 10k | 1.49 | 1.25 | 1.09 |

Bourns® 3006 Spectrol 43, BI Tech 89 Series

- 3/4 watt, 3/4" rectangular, 15-turn side adjust, $\pm 10\%$

* Web Code: XGD

| Part No. | Series | Value (Ω) | 1 | 10 | 100 |
|----------|--------|--------------------|------|------|-----|
| 695990 | 3006P | 100 | .99 | .89 | .79 |
| 241242 | 3006P | 200 | .99 | .89 | .79 |
| 41937 | 3006P | 500 | .99 | .89 | .79 |
| 241269 | 3006P | 1k | 1.25 | 1.09 | .99 |
| 41865 | 3006P | 2k | 1.25 | 1.09 | .99 |
| 41890 | 3006P | 5k | 1.25 | 1.09 | .99 |
| 41822 | 3006P | 10k | 1.25 | 1.09 | .99 |
| 41873 | 3006P | 20k | .99 | .89 | .79 |
| 241323 | 3006P | 50k | 1.25 | 1.09 | .99 |
| 41849 | 3006P | 100k | .99 | .89 | .79 |
| 63001 | 3006P | 200k | .99 | .89 | .79 |
| 41953 | 3006P | 500k | .99 | .89 | .79 |
| 241374 | 3006P | 1M | .99 | .89 | .79 |
| 2162901 | 3006P | 2M | .99 | .89 | .79 |
| 2178460 | 3006W | 500 | .59 | .49 | .39 |
| 2178427 | 3006W | 200k | .79 | .69 | .59 |
| 2180447 | 3006Y | 2M | .59 | .49 | .39 |

* P: side adjustment; W&Y: top adjustment ✓ Mfr.: Vishay

* Membrane Sensor/Potentiometer — Enter Web Code MEM

JAMECO ValuePro

Potentiometer and Instrumentation Knobs (1/8" & 1/4" Shaft Diameters)

NEW
MARKED IN PINK

* Web Code: EBD



| Part No. | Product No. | Shaft | Body | Pointer | Dia. " x H" | Fig. | 1 | 10 | 100 |
|----------|--------------|-------|--------------|---------|-------------|------|------|------|------|
| 2229669 | K86 | 1/8" | Alum | Alum | .39 x .95 | 1 | .89 | .79 | .69 |
| 2229677 | TS70-2WL-1 | 1/8" | Black | White | .50 x .75 | 2 | .89 | .79 | .69 |
| 2239120 | JK-905C-3.2 | 1/8" | Black/blue | White | .57 x .60 | 3 | 1.25 | .89 | .99 |
| 290125 | 42008-1 | 1/8" | Aluminum | Black | .63 x .50 | 4 | 2.49 | 2.25 | 1.95 |
| 2229651 | K71 | 1/8" | Black | White | .71 x .73 | 3 | .89 | .79 | .69 |
| 2229642 | K66 | 1/8" | Black | Alum | .72 x .75 | 5 | .89 | .79 | .69 |
| 2239111 | JK-901D-3.2 | 1/8" | Black/alum | White | .78 x .47 | 6 | 1.19 | .99 | .89 |
| 2239138 | JK-906D-3.2 | 1/8" | Black | White | .95 x .60 | 7 | 1.49 | 1.35 | 1.19 |
| 2229634 | EWKNOB21* | 1/4" | Black | White | .35 x .64 | 8 | .89 | .79 | .69 |
| 2231291 | MC256KN500 | 1/4" | Black | White | .50 x .62 | 5 | 1.49 | 1.25 | 1.09 |
| 265244 | CR-MS-3-T18* | 1/4" | Gray | Blue | .51 x .68 | 9 | .69 | .59 | .49 |
| 265261 | CR-MS-5-T18* | 1/4" | Gray | Gray | .51 x .68 | 9 | .69 | .59 | .49 |
| 265228 | CR-MS-1-T18* | 1/4" | Gray | Red | .51 x .68 | 9 | .69 | .59 | .49 |
| 136241 | GKB-214 | 1/4" | Black/alum | White | .54 x .52 | 5 | 1.25 | 1.09 | .99 |
| 162481 | K5-1/4S | 1/4" | Chrome | Silver | .56 x .50 | 10 | 1.75 | 1.49 | 1.25 |
| 265077 | JK-905C | 1/4" | Black/blue | White | .57 x .58 | 3 | .99 | .89 | .79 |
| 265084 | JK-905D | 1/4" | Black/green | White | .57 x .58 | 3 | .99 | .89 | .79 |
| 265051 | JK-905A | 1/4" | Black/red | White | .57 x .58 | 3 | .99 | .89 | .79 |
| 265069 | JK-905B | 1/4" | Black/yellow | White | .57 x .58 | 3 | .99 | .89 | .79 |
| 265122 | JK-906 | 1/4" | Black | White | .61 x .58 | 7 | 1.25 | 1.09 | .99 |
| 138482 | KN031 | 1/4" | Aluminum | Black | .65 x .61 | 11 | 2.49 | 2.25 | 1.95 |
| 138502 | KN032 | 1/4" | Aluminum | Black | .70 x .87 | 11 | 2.65 | 2.39 | 2.15 |
| 2228543 | JK-902D | 1/4" | Black | White | .75 x .42 | 2 | 1.09 | .99 | .89 |
| 104176 | JK-902C | 1/4" | Black | White | .75 x .49 | 12 | 1.09 | .99 | .89 |
| 265033 | JK-904C | 1/4" | Black/blue | White | .78 x .47 | 13 | .99 | .89 | .79 |
| 265018 | JK-904A | 1/4" | Black/red | White | .78 x .47 | 13 | .99 | .89 | .79 |
| 264990 | JK-901D | 1/4" | Black/alum | White | .78 x .47 | 6 | .99 | .89 | .79 |
| 202287 | CP-Z1-M-S | 1/4" | Black/alum | White | .80 x .60 | 14 | 1.09 | .99 | .89 |
| 138393 | 41108-1 | 1/4" | Black/alum | White | .85 x .56 | 5 | 1.49 | 1.25 | 1.09 |
| 265009 | JK-902B | 1/4" | Black | White | .95 x .60 | 2 | 1.09 | .99 | .89 |
| 264955 | JK-901C | 1/4" | Black/alum | White | 1.06 x .61 | 6 | 1.09 | .99 | .89 |
| 264892 | RN-113A | 1/4" | Black/alum | Numeric | 1.15 x .70 | 15 | 1.09 | .99 | .89 |
| 102788 | JK-903C | 1/4" | Black | White | 1.25 x .54 | 16 | .79 | .69 | .59 |
| 264946 | JK-901B | 1/4" | Black/alum | White | 1.29 x .64 | 6 | 1.25 | 1.09 | .99 |
| 264998 | JK-902A | 1/4" | Black | White | 1.31 x .69 | 2 | 1.09 | .99 | .89 |
| 264912 | RN-114A | 1/4" | Black/alum | Numeric | 1.46 x .58 | 15 | .99 | .89 | .79 |
| 264883 | RN-112A | 1/4" | Black/alum | Numeric | 1.46 x .90 | 15 | 1.09 | .99 | .89 |
| 2158143 | RN-12POS | 1/4" | Black/alum | Numeric | 1.50 x .70 | 15 | .69 | .59 | .49 |
| 2231048 | MC21050 | ✓ | Black/alum | White | .78 x .47 | 6 | .99 | .89 | .79 |

* For use with 1/4" knurled shaft \$ Plastic flange ✓ 18 teeth push on

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

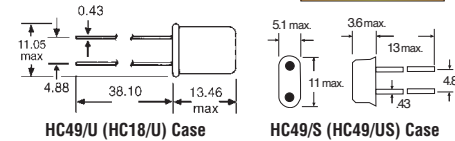
| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Crystals

- Frequency calibration tolerance: ± 50 ppm @ 25°C
- Freq. stability tolerance: ± 50 ppm from -10° to +60°C
- Operating temperature: -10°C to +60°C
- Shunt capacitance: 7pF max.
- Drive level: 4.0mW max.

★ Web Code: EAU



HC49/U (HC18/U) Case

| Part No. | Frequency (MHz) | Impedance | Pricing | | |
|----------|-----------------|-----------|---------|--------|--------|
| | | | 1 | 10 | 100 |
| 102613 | 1.8432 | 18pF | \$.59 | \$.55 | \$.49 |
| 101274 | 2.4576 | 32pF | .49 | .39 | .29 |
| 14533 | 3.579545 | 18pF | .49 | .39 | .35 |
| 324364 | 4.0 | Series | .39 | .35 | .29 |
| 14592 | 4.0 | 20pF | .49 | .39 | .35 |
| 14728 | 4.0 | Series | .49 | .39 | .35 |
| 14381 | 10.0 | Series | .49 | .39 | .35 |
| 2159630 | 12.0* | 20pF | .29 | .25 | .22 |
| 14402 | 12.0 | Series | .49 | .39 | .35 |
| 537799 | 14.31818 | Series | .29 | .25 | .22 |
| 324187 | 14.7456* | 20pF | .39 | .29 | .25 |
| 14453 | 16.0 | Series | .49 | .39 | .35 |
| 324268 | 20.0 | 20pF | .49 | .39 | .35 |
| 14517 | 20.0 | Series | .49 | .39 | .35 |

* Arndt

HC49/US Low Profile Case

| | | | | | |
|--------|-------|------|--------|--------|--------|
| 324962 | 4.0 | 20pF | \$.59 | \$.55 | \$.49 |
| 324929 | 5.0 | 20pF | .59 | .55 | .49 |
| 325198 | 12.0† | 20pF | .59 | .55 | .49 |
| 325139 | 16.0 | 20pF | .59 | .55 | .49 |
| 325068 | 20.00 | 20pF | .59 | .55 | .49 |
| 325024 | 24.0 | 20pF | .59 | .55 | .49 |

† Industrial temperature range is -40°C to 85°C

HC49/S Low Profile Case

- ± 5 ppm/year max.
- Drive level: 0.5mW (fundamental frequency)

| Part No. | Frequency (MHz) | Impedance | Pricing | | |
|----------|-----------------|-----------|---------|--------|--------|
| | | | 1 | 10 | 100 |
| 137832 | 4.0 | 17pF | \$.49 | \$.35 | \$.29 |
| 137859 | 8.0 | Series | .59 | .49 | .45 |
| 137875 | 11.0592 | Series | .49 | .35 | .29 |
| 137891 | 16.0 | Series | .49 | .35 | .29 |

Crystal Oscillator Sockets

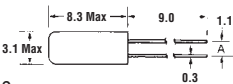
- Can be PCB-mounted without the modifications that would be needed with DIP-IC sockets
- Low profile solder tail; machine tooled on 4 pins



| Part No. | Description | 1 | 10 | 100 |
|----------|-----------------------------|--------|--------|--------|
| 676385 | 8-pos. socket for half can | \$.55 | \$.45 | \$.35 |
| 133006 | 14-pos. socket for full can | .65 | .55 | .45 |

Tuning Forks

- Operating temperature range: -10°C to +60°C
- Frequency: 32.768kHz
- Drive level: 1mW
- Frequency tolerance: ± 50 ppm
- Aging for first year: ± 3 ppm (max. +25°C)



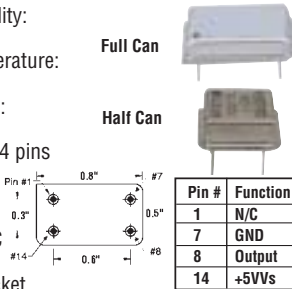
| Part No. | Comparable to: | Imped. | 1 | 10 | 100 |
|----------|----------------|--------|--------|--------|--------|
| 14584 | CY32.76 | 10.5pF | \$.49 | \$.45 | \$.39 |
| 325244 | JVP-325243 | 12.5pF | .49 | .45 | .39 |

TTL Oscillators

- Frequency stability: ± 100 ppm
- Operating temperature: 0°C to 70°C
- Output load TTL: 10 TTL max.
- Machine tooled 4 pins

Full Can

- Input volt.: +5VDC ± 0.5 VDC
- Most fit into a 14-pos. DIP socket
- P/N 133006, below left

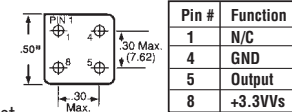


★ Web Code: XAD

| Part No. | Frequency (MHz) | Max. Input Current | Rise Fall Time | Pricing | | |
|----------|-----------------|--------------------|----------------|---------|--------|--------|
| | | | | 1 | 10 | 100 |
| 27861 | 1.0 | 7mA | 15ns | \$1.95 | \$1.79 | \$1.59 |
| 27879 | 1.8432 | 7mA | 15ns | 1.95 | 1.79 | 1.59 |
| 27924 | 2.0 | 7mA | 15ns | 1.49 | 1.35 | 1.19 |
| 27967 | 4.0 | 7mA | 10ns | 1.95 | 1.79 | 1.59 |
| 27991 | 8.0 | 15mA | 15ns | 1.49 | 1.35 | 1.19 |
| 27887 | 10.0 | 15mA | 10ns | 1.49 | 1.35 | 1.19 |
| 27932 | 20.0 | 17mA | 10ns | .75 | .59 | .39 |
| 2135321 | 24.0 | 30mA | 8ns | .49 | .39 | .29 |
| 27941 | 32.0 | 18mA | 7ns | .49 | .39 | .29 |
| 76822 | 33.0 | 18mA | 6ns | 1.95 | 1.79 | 1.59 |
| 2095381 | 60.0 | 65mA | 5ns | .39 | .35 | .29 |

Half Can

- Input voltage: +3.3VDC $\pm 10\%$
- Most fit into a 8-pos. DIP socket
- P/N 676385, below left



★ Web Code: MAM

| Part No. | Frequency (MHz) | Max. Input Current | Rise Fall Time | Pricing | | |
|----------|-----------------|--------------------|----------------|---------|--------|--------|
| | | | | 1 | 10 | 100 |
| 102779 | 10.0 | 30mA | 6ns | \$1.19 | \$1.09 | \$.99 |
| 325665 | 20.0 | 30mA | 10ns | .59 | .49 | .39 |
| 325702 | 32.0* | 70mA | 5ns | .49 | .45 | .39 |
| 354853 | 50.0* | 70mA | 10ns | .49 | .45 | .39 |

* Arndt

CRYSTAL AND OSCILLATOR ASSORTMENT

This is a variety of 100 assorted crystals and TTL oscillators. The package types can be HC49/U, HC18/U, full can or half can.

| Part No. | Mfr. Part No. | 1 | 10 |
|----------|---------------|--------|--------|
| 114446 | GB150 | \$7.95 | \$6.95 |

555 TIMER TUTORIAL

Follow the 555 timer tutorial while experimenting with the components on a breadboard. Building helps reinforce the concepts learned along the way.



| Part No. | Mfr. Part No. | 1 | 5 |
|----------|-----------------|---------|---------|
| 2243840 | KIT-555TUTORIAL | \$17.95 | \$16.49 |

5mm x 20mm Fast Acting Fuse Kit

- Glass cartridge, silver-end caps
- Voltage rating: 250VAC
- IEC127/BS4265/GEE4 spec.
- 100 pieces: 10 ea. of 0.1A, 0.2A, 0.5A, 1A, 1.6A, 2A, 2.5A, 3A, 4A and 5A



| Part No. | Mfr. Part No. | 1 | 10 | 25 |
|----------|---------------|---------|---------|---------|
| 645343 | K/FF | \$15.95 | \$14.95 | \$13.95 |

Fuses

★ Web Code: QAM

5mm x 20mm Mini Fast Acting GMA Fuses (250V)

- Recommended for new designs * Order in multiples of 10

| Part No. | Mfr. | Cross Ref. | Amps | 1 | 10 | 100 |
|----------|------|------------|------|--------|--------|--------|
| 103887 | JVP | GMA-250mA | .25A | \$.29 | \$.25 | \$.22 |
| 102041 | JVP | GMA-500mA | .5A | .29 | .25 | .22 |
| 103908 | JVP | GMA-1 | 1A | .29 | .25 | .22 |
| 103916 | JVP | GMA-2 | 2A | .29 | .25 | .22 |
| 103924 | JVP | GMA-3 | 3A | .29 | .25 | .22 |
| 103932 | JVP | GMA-5 | 5A | .29 | .25 | .22 |
| 2161668 | OPT | FSC-10A | 10A | .59 | .55 | .49 |
| 2161676 | OPT | FSC-15A | 15A | .59 | .55 | .49 |
| 2159664 | ADT | GMA-16 | 16A | * | .22 | .17 |

1 1/4" x 1/4" Standard Fast Acting (250V) AGC/3AG Fuses

★ Web Code: AAB

| Part No. | Mfr. | Cross Ref. | Amps | 1 | 10 | 100 |
|----------|------|------------|-------|--------|--------|--------|
| 69404 | JVP | AGC-250mA | .25A | \$.29 | \$.25 | \$.22 |
| 10410 | JVP | AGC-0.5 | .5A | .35 | .29 | .25 |
| 10373 | JVP | AGC-1 | 1A | .35 | .29 | .25 |
| 652949 | LTL | 312001.HXP | 1A | .39 | .35 | .29 |
| 2205472 | BSM | AGC-1-1/4 | 1.25A | .25 | .21 | .19 |
| 197528 | JVP | AGC-1.6 | 1.6A | .25 | .21 | .17 |
| 10382 | JVP | AGC-2 | 2A | .35 | .29 | .25 |
| 69439 | JVP | AGC-3R | 3A | .35 | .29 | .25 |
| 197544 | JVP | AGC-4 | 4A | .35 | .29 | .25 |
| 10402 | JVP | AGC-5 | 5A | .35 | .29 | .25 |
| 2258427 | SCH | F6.3† | 6.3A | .29 | .25 | .19 |
| 69462 | JVP | AGC-10 | 10A | .35 | .29 | .25 |
| 186301 | JVP | AGC-16 | 16A | .29 | .25 | .22 |

† 125VAC

5mm x 20mm Mini Slow Blow GMD Fuses (250V)

★ Web Code: MSB

| Part No. | Mfr. | Cross Ref. | Amps | 1 | 10 | 100 |
|----------|------|------------|-------|--------|--------|--------|
| 197502 | JVP | GMD-500mA | .5A | \$.39 | \$.35 | \$.29 |
| 2129836 | BEL | 5ST(P)630 | .63A | .39 | .35 | .29 |
| 103827 | BSM | GMC-1A* | 1A | .39 | .35 | .29 |
| 197465 | JVP | GMD-1 | 1A | .39 | .35 | .29 |
| 197472 | JVP | GMD-2 | 2A | .39 | .35 | .29 |
| 197482 | JVP | GMD-3.15 | 3.15A | .39 | .35 | .29 |
| 197500 | JVP | GMD-5 | 5A | .39 | .35 | .29 |

* Medium time delay type

1 1/4" x 1/4" Standard Slow Blow MDL/3AG Fuses (250V)

★ Web Code: EAD

| Part No. | Mfr. | Cross Ref. | Amps | 1 | 10 | 100 |
|----------|------|-------------|-------|--------|--------|--------|
| 653319 | LTL | 0313.125HXP | .125A | \$1.59 | \$1.49 | \$1.35 |
| 25655 | JVP | MDL-1/4 | .25A | .59 | .55 | .49 |
| 25689 | JVP | MDL-1/2 | .5A | .59 | .55 | .49 |
| 25639 | JVP | MDL-1 | 1A | .59 | .55 | .49 |
| 25646 | JVP | MDL-2 | 2A | .59 | .55 | .49 |
| 69535 | JVP | MDL-3 | 3A | .49 | .45 | .39 |
| 25672 | JVP | MDL-5 | 5A | .59 | .55 | .49 |
| 653589 | LTL | 313008HXP | 8A | 1.49 | 1.35 | 1.19 |
| 69570 | JVP | MDL-10 | 10A | .59 | .55 | .49 |

* ADT = Arndt Electronics | BEL = BEL Fuse | BSM = Bussmann | JVP = Jameco ValuePro | LTL = Littelfuse | OPT = Optifuse | SCH = Schurter

Fuses, Fuse Holders, Clips & Blocks

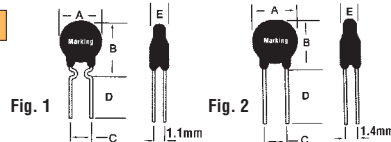


Resettable Fuses

*Web Code: SBF

Polymer Positive Temperature Coefficient (PPTC) fuses improve product quality performance and are resettable.

- Rated voltage: (V_{MAX}): 60V
- Max. current: (I_{MAX}): 40A
- Lead length (D): 7.6mm min.
- Thickness (E): 3.1mm max.



| Part No. | Mfr. P/N | Hold Curr. (I _H , A) | Trip Curr. (I _T , A) | Fig. | Size (mm) | | | | Pricing | | |
|----------|----------|---------------------------------|---------------------------------|------|-----------|------|-----|-----|---------|--------|--------|
| | | | | | A | B | C | E | 1 | 10 | 100 |
| 199832 | RA020-60 | 0.20 | 0.40 | 1 | 7.4 | 12.2 | 5.1 | 3.1 | \$.39 | \$.35 | \$.29 |
| 199858 | RA030-60 | 0.30 | 0.60 | 1 | 7.4 | 13.0 | 5.1 | 3.1 | .49 | .45 | .39 |
| 199874 | RA050-60 | 0.50 | 1.00 | 1 | 7.9 | 13.7 | 5.1 | 3.1 | .59 | .55 | .49 |
| 199912 | RA110-60 | 1.10 | 2.20 | 2 | 13.0 | 18.0 | 5.1 | 3.1 | .59 | .55 | .49 |
| 199938 | RA160-60 | 1.60 | 3.20 | 2 | 16.3 | 21.3 | 5.1 | 3.1 | .59 | .55 | .49 |



Fuse Holders

*Web Code: UEA

Omni-Blok® Molded Base Fuse Block

- Dielectric strength: 1500V min.
- Clip/terminals: tin plated spring brass
- Solder terminal
- *1 3AG 2 5x20mm



| Part No. | Mfr. Part No. | Curr. Rating | Size* | 1 | 10 | 100 |
|----------|---------------|--------------|---------|--------|--------|--------|
| 1711947 | 354800-GY | 20A, 300V | 1 ... | \$.99 | \$.89 | \$.79 |
| 1712608 | 520101† | 10A, 300V | 2 | .99 | .89 | .79 |

† PCB mount

Panel Mount for 3AG Fuse

- Dielectric strength: 2400V min.
- Black thermoplastic, UL94V-0
- Terminals: copper & copper alloy, tin plated
- Size: 1 1/4" x 1/4"

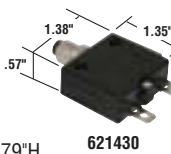


| Part No. | Mfr. Part No. | Curr. Rating | 1 | 10 | 100 |
|----------|---------------|--------------|--------|--------|--------|
| 1711681 | 03420012H | 20A, 250V | \$2.29 | \$2.19 | \$2.09 |



Circuit Breakers

- Quick connect style terminals (.25")
- Actuator: black plastic button
- Mounting hole: 0.450"
- Current rated for 125/250VAC/32VDC
- P/N 2186013: 1.1"L x .51"W x .79"H



Includes: Nut, knurled nut, ID plate

*Web Code: LCF

| Part No. | Mfr. P/N | Curr. Rating (A@VAC) | 1 | 10 | 100 |
|----------|---------------|----------------------|--------|--------|--------|
| 621376 | 35-2105# | 5 @ 125/250 | \$5.49 | \$4.95 | \$4.49 |
| 621413 | 35-2110# | 10 @ 125/250 | 4.95 | 4.49 | 3.95 |
| 2173061 | W58-XB1A4A-10 | 10 @ 125/250 | 2.95 | 2.59 | 2.25 |
| 621430 | 35-2115# | 15 @ 125/250 | 3.95 | 3.55 | 3.19 |
| 2186013 | SS-001* | 15 @ 125 | 3.95 | 3.59 | 3.29 |
| 621448 | 35-2120# | 20 @ 125/250 | 3.95 | 3.55 | 3.19 |
| 612470 | W28-XQ1A-20† | 20 @ 250 | 2.49 | 2.25 | 1.95 |

*Rocker switch style (snap-in), Reset/Off mark

†Rocker switch style (snap-in), 0.6" mounting hole

#Additional hardware (hex and knurled nut (2), P/N 2227250)



Auto Fuses & Fuse Holders

Automotive Blade Low Voltage Fuse

- Standard for battery applications
- Rated at 32VDC
- Fast acting
- SAE J1284 standard
- Common names: ATO/ATC



Fig. 1 (2135961) Fig. 2 (2230951)

*Web Code: ATF

| Part No. | †Mfr. | Mfr. P/N | Fig. | Amps | 1 | 10 | 100 |
|----------|-------|----------|------|------|-------|-------|-------|
| 2135890 | OTF | APR-3A | 1 | 3A | \$.59 | \$.49 | \$.39 |
| 2135902 | OTF | APR-5A | 1 | 5A | .49 | .39 | .32 |
| 2135929 | OTF | APR-10A | 1 | 10A | .59 | .49 | .39 |
| 1769330 | BSM | ATM-15 | 1 | 15A | .49 | .39 | .32 |
| 2135937 | OTF | APR-15A | 1 | 15A | .49 | .39 | .32 |
| 2135945 | OTF | APR-20A | 1 | 20A | .49 | .39 | .32 |
| 2135961 | OTF | APR-30A | 1 | 30A | .39 | .35 | .29 |
| 2230951 | BSM | HHR* | 2 | 20A | 5.95 | 5.39 | 4.79 |
| 2230942 | BSM | HHM* | 2 | 30A | 5.95 | 5.39 | 4.79 |
| 2231216 | BSM | BK/HHX2* | 2 | 48A | 14.95 | 13.49 | 11.95 |

*Fuse holder †OTF = Optifuse; BSM = Bussmann

20A Circuit Breaker Leakage Protection Switch



- Earth leakage circuit protector
- 100-240VAC @ 50/60Hz 1000A, 20A
- Rated current: 20A
- 4 terminal line/load connection
- On-Trip-Off flip switch
- Test push button • High speed type
- Size: 2.8"L x 1.2"W x 1.6"H



| Part No. | Mfr. Part No. | 1 | 10 | 100 |
|----------|---------------|--------|--------|--------|
| 2192798 | EC2A2-020NZR | \$1.95 | \$1.75 | \$1.49 |



Fuse Holders & Clips

*Web Code: UEA

Screw Driver Slot Fuse Holders

- Terminal • D-style • UL/CSA
- Mounting hole: .5"Dia. x .46" Flat

| Part No. | Cross Ref. | Type | Current | Size (L" x Dia.) | 1 | 10 | 100 |
|----------|------------|----------|--------------|------------------|--------|--------|--------|
| 102832 | EF5609 | 5 x 20mm | 10A @ 250VAC | 1.4 x 0.6 | \$1.95 | \$1.75 | \$1.59 |
| 2178742 | 5X20LFH | 5 x 20mm | 20A @ 300VAC | 1.7 x 0.6 | .75 | .65 | .55 |



Printed Circuit Board Fuse Holder

- Current: 16A @ 500VAC

| Part No. | Mfr. | Type | Size | Lead Spacing | 1 | 10 | 100 |
|----------|----------|----------|-----------------------|--------------|--------|--------|--------|
| 2228797 | Schurter | 5 x 20mm | 2.4"L x .66"W x .75"H | .55" | \$1.95 | \$1.75 | \$1.49 |



1 1/4" x 1/4" Standard In-Line Fuse Holders

- Built-in spring ensures good fuse connection
- Vinyl covered wire with stranded copper center

| Part No. | Mfr. | AWG | Wire Lengths | Body Length | Color (Body/Wire) | 1 | 10 | 100 |
|----------|-------------|-----|--------------|-------------|-------------------|--------|--------|--------|
| 109322 | ValuePro | 22 | 3.5/3" | 2.4" | Black/Red | \$.79 | \$.75 | \$.69 |
| 102868 | ValuePro | 20 | 3/3" | 2.2" | White/Red | .89 | .79 | .69 |
| 2221448 | ValuePro | 20 | 6/6" | 1.6" | White/Red | .89 | .79 | .69 |
| 151918 | ValuePro | 18 | 6/6" | 2.4" | White/Red | 1.19 | 1.09 | .95 |
| 108784 | ValuePro | 16 | 21/26" | 2.2" | Black/Orange | 1.79 | 1.55 | 1.29 |
| 1708959 | Littelfuse* | 14 | 8" loop | 2.2" | Black/Red | 2.29 | 2.05 | 1.85 |
| 108792 | ValuePro | 14 | 19/25" | 2.5" | Black/Red | 2.49 | 2.25 | 1.95 |

*Supplied with two springs to accommodate different SFE sized fuses



5mm x 20mm Mini Thumbscrew Panel Mount Fuse Holders

- Straight solder terminal • Size: 1.5"L x 0.6"Dia.

| Part No. | Mfr. | Curr. (A @ VAC) | Mounting Hole | 1 | 10 | 100 |
|----------|----------|-----------------|---------------------|--------|--------|--------|
| 150464 | ValuePro | 6 @ 250 | .50"Dia. x .43"Flat | \$1.09 | \$.99 | \$.89 |
| 102825 | ValuePro | 10 @ 250 | .50"Dia. | 1.25 | 1.09 | .95 |



1 1/4" x 1/4" Standard Thumbscrew Panel Mount Fuse Holders

- Straight solder terminal • Current: 10A @ 250VAC

| Part No. | Mfr. | Size (L x Dia.) | Mounting Hole | 1 | 10 | 100 |
|----------|----------|-----------------|---------------------------------|-------|-------|-------|
| 120994 | ValuePro | 1.95" x .71" | .58"Dia. (Double D-style) | \$.95 | \$.85 | \$.69 |
| 18703 | ValuePro | 2.05" x .71" | .58"Dia. x .52"Flat (D-style) | 1.95 | 1.75 | 1.59 |
| 2179649 | Bussman | 2.64" x .79" | .505"Dia. x .473"Flat (D-style) | 1.95 | 1.75 | 1.59 |
| 2215582 | Bussman* | 3.28" x .81" | .63"Dia. x .573" (Octagon) | 3.95 | 3.59 | 3.29 |

*Illuminates when fuse fails

Low Profile PCB-Mount Fuse Clips

- 1. For GMA/GMD fuses 2. For 3AGC/MDL/AG fuses

- Low contact resistance • Withstands shock/vibration

| Part No. | Description | For Use With† | Size (H" x W" x D" x P") | 10 | 100 | 500 |
|----------|-------------------------|---------------|--------------------------|-------|-------|-------|
| 119280 | 5mm, side leads | 1 | .33 x .25 x .20 x .21 | \$.15 | \$.13 | \$.09 |
| 102860 | 5mm, front leads | 1 | .37 x .25 x .21 x .19 | .15 | .13 | .09 |
| 2099438 | 1/4", side leads | 2 | .42 x .25 x .20 x .21 | .10 | .09 | .08 |
| 102842 | 1/4", front leads (10A) | 2 | .32 x .27 x .25 x .23 | .15 | .13 | .09 |



Fuse Blocks

*Web Code: OFB

| Part No. | Mfr. Part No. | Description (Rating) |
|----------|---------------|---|
| 2136243 | BLC-20A | Single, snap-together block for multi-pole applications (125VAC, 15A) (250VAC, 10A) |
| 2136251 | BLC-20C | Single, snap-together block for multi-pole applications (125VAC, 8A) (250VAC, 8A) |
| 2136294 | BLR-I-301 | 1-pos. w/ snap-in mount (124VDC, 30A), cover included† |
| 2136278 | BLR-I-306 | 6-pos. w/ snap-in mount (30A per circuit, 100A max input), cover included† |
| 2136286 | BLR-I-310 | 10-pos. w/ snap-in mount (30A per circuit, 100A max input), cover included† |

† LED indicator and 1/4" quick connect terminals

| Compatible Fuses | 1 | 10 | 100 |
|------------------------|--------|--------|-------|
| 1/4" x 1-1/4" fuses | \$1.25 | \$1.09 | \$.99 |
| 5mm x 20mm fuses | 1.25 | 1.09 | .99 |
| Automotive-blade fuses | 3.49 | 3.19 | 2.89 |
| Automotive-blade fuses | 16.95 | 13.95 | 11.95 |
| Automotive-blade fuses | 21.95 | 19.95 | 17.95 |



*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Hook-Up Wire & Telephone Cable

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

JAMECO ValuePro

UL1007 & UL1569 Rated Stranded Hook-Up Wire

*Web Code: JAS

- Applications: Interconnection circuits, wiring of computer and data processing equipment, automotive and applications
- Additional colors available online • 300V peak • PVC insulation • Stranded • Sold in 100' & 1000' rolls • VW-1
- Temp. range: -40°C to 80°C (UL1007); -40°C to 105°C (UL1569) • Tin-plated copper • Additional lengths available online

Appliance Wiring Material (AWM) is a UL recognized covering of insulated wire & cable intended for internal wiring of appliances & equipment.



| AWG | Stranding | UL1007 | UL1569 | Length | Black P/N | Red P/N | White P/N | Green P/N | Yellow P/N | Blue P/N | Brown P/N | Orange P/N | Violet P/N | Gray P/N | 1 | 5 |
|-----|-----------|--------|--------|--------|-----------|---------|-----------|-----------|------------|----------|-----------|------------|------------|----------|--------|--------|
| 28 | 7 x 36 | x | x | 100 | 734611 | 734603 | 734610 | 734606 | 734605 | 734614 | 2184878 | 2184886 | 2184894 | 2184907 | \$5.95 | \$5.49 |
| 26 | 7 x 34 | x | x | 100 | 734511 | 734503 | 734510 | 734506 | 734505 | 734514 | 2184798 | 2184801 | 2184819 | 2184827 | 6.95 | 5.95 |
| 24 | 7 x 32 | x | x | 100 | 734411 | 734403 | 734410 | 734406 | 734405 | 734414 | 2171831 | 2171840 | 2171858 | 2171866 | 7.49 | 6.75 |
| 22 | 7 x 30 | x | x | 100 | 126085 | 126034 | 126077 | 310852 | 310878 | 310886 | 2184991 | 2185002 | 2185011 | 2185029 | 8.49 | 7.49 |
| 22 | 7 x 30 | x | x | 100 | 734311 | 734303 | 734310 | 734306 | 734305 | 734314 | 2138071 | 2138089 | 2138097 | 2138100 | 8.95 | 7.95 |
| 20 | 10 x 30 | x | x | 100 | 125840 | 125795 | 125831 | 310894 | 310915 | 310922 | 2185037 | 2185045 | 2185053 | 2185061 | 11.49 | 10.49 |
| 20 | 10 x 30 | x | x | 100 | 734211 | 734203 | 734210 | 734206 | 734205 | 734214 | 2171874 | 2171882 | 2171891 | 2171903 | 12.95 | 11.95 |
| 18 | 16 x 30 | x | x | 100 | 125787 | 125736 | 125752 | 310932 | 310949 | 310958 | 2185070 | 2185088 | 2185096 | 2185109 | 14.49 | 12.95 |
| 18 | 16 x 30 | x | x | 100 | 734111 | 734103 | 734110 | 734106 | 734105 | 734114 | 2171911 | 2171920 | 2171938 | 2171946 | 14.95 | 13.49 |
| 16 | 26 x 30 | x | x | 100 | 734011 | 734003 | 734010 | 734006 | 734005 | 734014 | 2184835 | 2184843 | 2184851 | 2184860 | 16.95 | 15.25 |

JAMECO ValuePro

Solid Hook-Up Wire – 22 AWG

*Web Code: PAF

- Temperature range: -55°C to +105°C
- Passes UL VW-1 flame test • MIL-W-16878/1, type B PVC
- For use with breadboards such as the JE20 series, pg 131
- Additional colors available online

| Length | Black P/N | Blue P/N | Green P/N | Red P/N | White P/N | Yellow P/N | 1 | 5 | 10 |
|--------|-----------|----------|-----------|---------|-----------|------------|--------|--------|--------|
| 25' | 2152876 | 2152884 | 2152892 | 2152905 | 2153553 | 2152921 | \$3.49 | \$3.25 | \$2.95 |
| 100' | 36792 | 36768 | 36822 | 36856 | 36881 | 36920 | 7.95 | 6.95 | 5.95 |
| 1000' | 36805 | 36776 | 36840 | 36864 | 36899 | 36928 | 59.95 | 54.95 | 49.95 |



1/4-Lb. Nichrome Resistance Wire

- 60% nickel, 16% chromium, 24% iron
- Excellent resistance characteristics
- Temperature: to 1800°F (982°C)
- 24 AWG
- Nominal O.D.: 0.0201"

JAMECO ValuePro

*Web Code: ZOR

| Part No. | Length (ft.) | Ω/Ft. @ 68°F | 1 | 5 |
|----------|--------------|--------------|---------|---------|
| 2119419 | 205 | 1.671 | \$14.95 | \$13.95 |

JAMECO ValuePro

Bus Bar Hook-Up Wire

*Web Code: QCS

Tinned Copper

- Solid soft drawn annealed tinned copper • Single conductor
- Approvals: ASTM-B-3, QQ-W-343-Type-S • No insulation
- Sold in 100' reels

| Part No. | Gauge | O.D. (in.) | Amps | 1 | 5 | 25 |
|----------|--------|------------|------|--------|--------|--------|
| 2098478 | 24 AWG | 0.020 | 5 | \$7.95 | \$7.25 | \$6.49 |
| 2098486 | 22 AWG | 0.025 | 7 | 8.95 | 7.95 | 7.25 |
| 2098494 | 20 AWG | 0.032 | 8.5 | 10.95 | 9.95 | 8.95 |
| 2098507 | 18 AWG | 0.040 | 16 | 15.95 | 14.49 | 12.95 |
| 2098515 | 16 AWG | 0.061 | 19 | 18.95 | 16.95 | 15.49 |



Kynar™ Wire-Wrap Wire – 30 AWG

*Web Code: NAC

- Polyvinylidene fluoride insulation • Used for prototyping
- Silver plated copper (solid conductor) • UL 1423
- Temperature: -40°C to +125°C • Passes UL VW-1 flame test
- Wire wrap tools, pg 122 • See pg 12 for sockets

| 100 Foot Reel | | Pricing | |
|---------------|--------|---------|---------|
| Part No. | Color | 1 | 5 |
| 22542 | Blue | \$11.95 | \$10.95 |
| 22577 | Black | 11.95 | 10.95 |
| 22631 | Red | 11.95 | 10.95 |
| 22665 | White | 11.95 | 10.95 |
| 22606 | Green | 11.95 | 10.95 |
| 22700 | Yellow | 11.95 | 10.95 |

| 1000 Foot Reel | | Pricing | |
|----------------|--------|---------|---------|
| Part No. | Color | 1 | 5 |
| 22551 | Blue | \$59.95 | \$54.95 |
| 22585 | Black | 59.95 | 54.95 |
| 22649 | Red | 59.95 | 54.95 |
| 22673 | White | 59.95 | 54.95 |
| 22614 | Green | 59.95 | 54.95 |
| 22702 | Yellow | 59.95 | 54.95 |



JAMECO ValuePro

Stranded & Solid Hook-Up Wire Kits

- Solid: 105°C, tinned copper, MIL-W-16878/1, type B
- Stranded: 80°C, tin plated, UL1007
- Passes UL VW-1 flame test

*Web Code: PAF

| Part No. | AWG | Strands | Voltage | Wire Length | Colors | 1 | 5 |
|----------|-----|---------|---------|------------------|--------|---------|---------|
| 2130917 | 24# | 7x32 | 60V | 0-1=32', 2-9=16' | 0-9 | \$12.95 | \$11.95 |
| 2207751 | 24# | Solid | 60V | 0-1=32', 2-9=16' | 0-9 | 12.95 | 11.95 |
| 2187876 | 24 | 7x32 | 300V | 0-1=32', 2-9=16' | 0-9 | 11.95 | 10.95 |
| 2206264 | 22* | 7x30 | 300V | 25' | 0-5 | 17.95 | 15.95 |
| 2206272 | 22* | 7x30 | 300V | 100' | 0-5 | 36.95 | 32.95 |
| 2153705 | 22* | Solid | 600V | 25' | 0-5 | 16.95 | 14.95 |
| 2159189 | 22 | Solid | 600V | 100' | 0-5 | 36.95 | 33.95 |
| 2183752 | 22* | Solid | 600V | 100' | 0-5 | 39.95 | 35.95 |
| 2206281 | 18* | 16x30 | 300V | 25' | 0-5 | 24.95 | 21.95 |

* 0=Black, 1=Red, 2=White, 3=Green, 4=Yellow, 5=Blue, 6=Brown, 7=Orange, 8=Violet, 9=Gray
* Includes dispenser box # Mfr.: Velleman



Modular Telephone Cable – 28 AWG

- Color coded conductors
- Flat modular cable • PVC jacket
- 7 x 43 stranded • Gray

STEREN
*Web Code: LCG

| Part No. | Cross Ref. No. | Conductors | Length (ft.) | 1 | 5 | 10 |
|----------|----------------|------------|--------------|--------|--------|--------|
| 644691 | 300-860SL-100 | 6 | 100 | \$9.95 | \$9.49 | \$8.95 |
| 644703 | 300-860SL-1000 | 6 | 1000 | 74.95 | 69.95 | 66.95 |



JAMECO ValuePro

Twisted Paired Cable – 24 AWG

- PVC insulation • Reduced EMI
- Use for hook-up wire • 80°C
- Stranded tinned wire (7 x 32) • 300 V

*Web Code: EBC

| 100 Foot Reel | | Pricing | |
|---------------|-------------|---------|--------|
| Part No. | Color | 1 | 5 |
| 173164 | Black/white | \$9.95 | \$9.49 |
| 105912 | Green/white | 9.95 | 9.49 |
| 173148 | Red/white | 9.95 | 9.49 |

| 1000 Foot Reel | | Pricing | |
|----------------|-------------|---------|---------|
| Part No. | Color | 1 | 5 |
| 173172 | Black/white | \$84.95 | \$79.95 |
| 105807 | Green/white | 79.95 | 74.95 |
| 173156 | Red/white | 99.95 | 94.95 |



For modular plugs, jacks and adapters, see page 45

Coaxial, Multi-Conductor, Paired & Speaker Cable



Coaxial Cable

Common Coax Cables: RG-#/U (RG = Radio Grade; U = Universal)
RG-59: Baseband video in CCTV, low shielding, 75Ω

RG-58: Radio communication, amateur radio, 50Ω

RG-174: Wi-Fi pigtails, more flexible but higher loss than RG-58, 50Ω

- Color: black
- PVC jacket
- Polyethylene insulated

| Part No. | Mfr. | Product No. | Fig. | Length | AWG | Type | Nom. Imp (Ω) | Bare Copper | Braid Shield | Pricing | |
|----------|------|--------------|------|------------|-------------|---------|--------------|-------------|--------------|---------|---------|
| | | | | | | | | | | 1 | 5 |
| 644754 | JVP | RG58/U-100 | 1 | 100' Reel | 20 Solid | RG58/U | 50 | 0.015" | 38 | \$26.95 | \$24.95 |
| 644818 | JVP | RG174/U-100 | 2 | 100' Reel | 26 Stranded | RG174/U | 50 | 0.020" | 98 | 19.95 | 17.95 |
| 644826 | JVP | RG174/U-1000 | 2 | 1000' Reel | 26 Stranded | RG174/U | 50 | 0.020" | 98 | 179.95 | 169.95 |

* Web Code: CLC



Fig. 1



Fig. 2



Multi-Conductor Cable

* Web Code: MCC

| Part No. | Mfr. | Product No. | Fig. | AWG (stranded) | # of Cond. | Length | Jacket | Wire Color | Insul. | Nom. O.D. | Pricing | |
|----------|------|---------------|------|-------------------------------|------------|--------------|------------|--------------------------|--------|-----------|---------|---------|
| | | | | | | | | | | | 1 | 5 |
| 732996 | BDN | 8442 060100 | 1 | 22 ¹ | 2 | 100' Reel | Chrome/PVC | Black, Red | A | 0.170" | \$39.95 | \$37.95 |
| 733008 | BDN | 8442 060500 | 1 | 22 ¹ | 2 | 500' Reel | Chrome/PVC | Black, Red | A | 0.170" | 169.95 | 159.95 |
| 734054 | BDN | 8442 060U1000 | 1 | 22 ¹ | 2 | 1000' Unreel | Chrome/PVC | Black, Red | A | 0.170" | 299.95 | 289.95 |
| 733024 | BDN | 8443 060100 | 2 | 22 ¹ | 3 | 100' Reel | Chrome/PVC | Black, Red, Green | A | 0.172" | 55.95 | 49.95 |
| 733032 | BDN | 8443 060500 | 2 | 22 ¹ | 3 | 500' Reel | Chrome/PVC | Black, Red, Green | A | 0.172" | 219.95 | 199.95 |
| 733059 | BDN | 8444 060100 | 3 | 22 ¹ | 4 | 100' Reel | Chrome/PVC | Black, Red, White, Green | A | 0.185" | 64.95 | 61.95 |
| 733067 | BDN | 8444 060500 | 3 | 22 ¹ | 4 | 500' Reel | Chrome/PVC | Black, Red, White, Green | A | 0.185" | 264.95 | 249.95 |
| 2119494 | JVP | 5411-100 | 4 | 22 ¹ | 5 | 100' Reel | Gray/PVC | Blk, Red, Wh, Grn, Brn | A | 0.190" | 44.95 | 42.95 |
| 2119558 | JVP | 5578-100 | 5 | 18/20 drain wire ² | 3 | 100' reel | Chrome/PVC | Black, Red, White | B | 0.230" | 49.95 | 44.95 |
| 2119531 | JVP | 5576-100 | 5 | 22/22 drain wire ² | 3 | 100' Reel | Gray/PVC | Black, Red, White | B | 0.190" | 29.95 | 28.49 |
| 644383 | JVP | SC4-25 | 6 | 24 drain wire ² | 4 | 25' Reel | Gray/PVC | Multi-Colored | A | 0.200" | 9.95 | 8.95 |
| 644391 | JVP | SC4-100 | 6 | 24 drain wire ² | 4 | 100' Reel | Gray/PVC | Multi-Colored | A | 0.200" | 26.95 | 24.49 |
| 644404 | JVP | SC4-1000 | 6 | 24 drain wire ² | 4 | 1000' Reel | Gray/PVC | Multi-Colored | A | 0.200" | 219.95 | 199.95 |
| 644412 | JVP | SC-925 | 6 | 24 drain wire ² | 9 | 25' Unreel | Gray/PVC | Multi-Colored | A | 0.230" | 13.95 | 12.49 |
| 644421 | JVP | SC9-100 | 6 | 24 drain wire ² | 9 | 100' Reel | Gray/PVC | Multi-Colored | A | 0.230" | 44.95 | 39.95 |
| 644439 | JVP | SC9-1000 | 6 | 24 drain wire ² | 9 | 1000' Reel | Gray/PVC | Multi-Colored | A | 0.230" | 349.95 | 329.95 |
| 644447 | JVP | SC15-25 | 6 | 24 drain wire ² | 15 | 25' Unreel | Gray/PVC | Multi-Colored | A | 0.280" | 19.95 | 17.95 |
| 644455 | JVP | SC15-100 | 6 | 24 drain wire ² | 15 | 100' Reel | Gray/PVC | Multi-Colored | A | 0.280" | 59.95 | 53.95 |
| 644471 | JVP | SC25-25 | 6 | 24 drain wire ² | 25 | 25' Unreel | Gray/PVC | Multi-Colored | A | 0.370" | 29.95 | 26.95 |
| 644480 | JVP | SC25-100 | 6 | 24 drain wire ² | 25 | 100' Reel | Gray/PVC | Multi-Colored | A | 0.370" | 99.95 | 89.95 |



Fig. 1



Fig. 2



Fig. 3

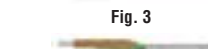


Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17

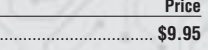


Fig. 18



Fig. 19

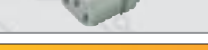


Fig. 20



Fig. 21

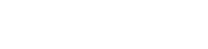


Fig. 22

Wire & Cable

1 = Unshielded
2 = 100 Aluminum/
Mylar Shield 100%
A = PVC B = Polyethylene
Blk = Black Brn = Brown
Grn = Green Wh = White



Paired Cable

* Web Code: HCS

| Part No. | Mfr. | Product No. | Fig. | AWG/Drain Wire | # of Pairs | Length | Jacket | Wire Color | Insul. | Pricing | |
|----------|------|--------------|------|----------------|------------|-------------|------------|------------------------|--------|---------|---------|
| | | | | | | | | | | 1 | 5 |
| 2119515 | JVP | 5574-100 | 1 | 18 / 24 | 1 | 100' Reel | Chrome/PVC | Black/White | A | \$39.95 | \$35.95 |
| 733112 | BDN | 8451 010100 | 2 | 22 / 22 | 1 | 100' Reel | Black/PVC | Black/Red | B | 29.95 | 28.49 |
| 734063 | BDN | 8451 010U500 | 2 | 22 / 22 | 1 | 500' Unreel | Black/PVC | Black/Red | B | 134.95 | 129.95 |
| 734180 | BDN | 8723 060100 | 3 | 22 / 24 | 2 | 100' Reel | Chrome/PVC | Black/Red, Green/White | B | 59.95 | 53.95 |
| 734184 | BDN | 8723 060U500 | 3 | 22 / 24 | 2 | 500' Unreel | Chrome/PVC | Black/Red, Green/White | B | 274.95 | 254.95 |



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7

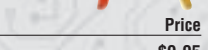


Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Zip Automotive Speaker Cable

- Good for automotive or language labs
- High definition, low loss
- Red/black color coded PVC
- Voltage: 300VAC, 60VDC
- Annealed stranded bare copper wire (16 x 30)

2173845

| Part No. | AWG | Strands | Length | 1 | 5 |
|----------|-----|---------|-----------|---------|---------|
| 2173845 | 18 | 16 x 30 | 100' ... | \$29.95 | \$27.95 |
| 2206299 | 18 | 16 x 30 | 25' | 10.95 | 9.95 |

* BDN = Belden | JVP = Jameco ValuePro



2-Conductor Power/ Speaker Cable

* Web Code: VAL

- Black wire has white polarity stripe
- Temp. rating: 20°C to 60°C
- Stranded copper wire (7 x 32)
- Operating voltage: 300V • 24 AWG
- White wire has textured jacket for polarity

| Part No. | Cross Ref. No. | Color | Length | 1 | 5 | 10 |
|----------|----------------|-------|--------|--------|--------|--------|
| 100280 | CAR45B-100 | Black | 100' | \$9.95 | \$8.95 | \$7.95 |
| 100299 | CAR45B-1K | Black | 1000' | 69.95 | 62.95 | 56.95 |
| 2208391 | CAR45W-1K | White | 1000' | 59.95 | 54.95 | 49.95 |

SELF-ADJUSTING CUTTER & STRIPPER TOOL

Cut and strip solid wire, twisted wire and ribbon cable.

- 2-in-1 wire stripper & cutter
- Wire range: 0.2mm to 6mm
- Strip 8mm wide flat cable
- Adjustable stop length



| Part No. | Mfr. | Part No. | Price |
|----------|---------|----------|--------|
| 2112284 | GTA-002 | | \$9.95 |

* Web Code: UBF

ALL YOUR POWER CORD NEEDS

2 & 3 Conductor Fan, Pigtail, Detachable & Hospital Grade Power Cords at Industry Low Prices! See Page 102 for Complete Selection.



* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com



28 AWG (7 x 36) Gray and Multicolor Flat Ribbon Cable

*Web Code: WBX

Gray Cable

- Insulation: polyvinyl chloride (PVC)
- Single edge red stripe for pin 1 orientation
- Center spacing: 0.05"

See page 56 for IDC Connectors

| Part No. | Cross Ref. No. | Conductors | Length | 1 | 5 | 25 |
|----------|----------------|------------|-----------|--------|--------|--------|
| 643794 | 171-10-10 | 10 | 10' | \$3.95 | \$3.55 | \$3.19 |
| 643815 | 171-10-100 | 10 | 100' reel | 21.95 | 19.95 | 17.95 |
| 643831 | 171-16-10 | 16 | 10' | 4.95 | 4.49 | 3.95 |
| 643858 | 171-16-100 | 16 | 100' reel | 34.95 | 31.49 | 27.95 |
| 643874 | 171-20-10 | 20 | 10' | 5.95 | 5.49 | 4.95 |
| 643891 | 171-20-100 | 20 | 100' reel | 44.95 | 39.95 | 35.95 |
| 643911 | 171-25-10 | 25 | 10' | 6.95 | 6.25 | 5.59 |
| 643938 | 171-25-100 | 25 | 100' reel | 39.95 | 35.95 | 31.95 |
| 643962 | 171-26-10 | 26 | 10' | 8.49 | 7.49 | 6.75 |
| 643989 | 171-26-100 | 26 | 100' reel | 59.95 | 53.95 | 48.95 |
| 644121 | 171-40-25 | 40 | 25' | 29.95 | 26.95 | 23.95 |
| 644130 | 171-40-100 | 40 | 100' reel | 79.95 | 69.95 | 62.95 |
| 644172 | 171-50-100 | 50 | 100' reel | 89.95 | 79.95 | 74.95 |
| 644199 | 171-60-10 | 60 | 10' | 8.95 | 7.95 | 6.95 |

Multicolor Cable

- Standard 10-color repeat sequence
- Voltage rating: 300V
- Center spacing: 0.05"
- Stranded copper wire
- Temperature rating: -20°C to +80°C

*Web Code: WCF

| Part No. | Cross Ref. No. | Conductors | Length | 1 | 5 | 25 |
|----------|----------------|------------|-----------|--------|--------|--------|
| 639672 | 28RC10-10 | 10 | 10' | \$5.95 | \$5.49 | \$4.95 |
| 643508 | 28RC10-25 | 10 | 25' | 12.95 | 11.49 | 10.49 |
| 643516 | 28RC10-100 | 10 | 100' reel | 39.95 | 35.95 | 32.49 |
| 643532 | 28RC16-10 | 16 | 10' | 7.95 | 6.95 | 6.25 |
| 643559 | 28RC16-100 | 16 | 100' reel | 59.95 | 53.95 | 48.95 |
| 643575 | 28RC20-10 | 20 | 10' | 10.95 | 9.95 | 8.95 |
| 643583 | 28RC20-25 | 20 | 25' | 21.95 | 19.95 | 17.95 |
| 643591 | 28RC20-100 | 20 | 100' | 74.95 | 67.49 | 59.95 |
| 643639 | 28RC25-100 | 25 | 100' reel | 89.95 | 79.95 | 74.95 |
| 643698 | 28RC40-10 | 40 | 10' | 26.95 | 23.95 | 21.95 |

All USB and computer cables on Page 137



Ethernet Network Cable Assemblies

Category 5e

- 8P8C • 4 pair • Unshielded Twisted Pair (UTP) • 350 MHz • "Snagless" boot
- 24 AWG (7 x 43) stranded • T568B color coded for easy wire tracing

| Part No. | Length | Color | 1 | 10 | 100 |
|----------|--------|-------|--------|--------|--------|
| 168292 | 3 ft. | Gray | \$1.75 | \$1.55 | \$1.39 |
| 2258494 | 7 ft. | Gray | 2.75 | 2.49 | 2.25 |
| 201697 | 3 ft. | Black | 1.75 | 1.59 | 1.39 |
| 201700 | 7 ft. | Black | 2.49 | 2.25 | 1.95 |
| 201718 | 15 ft. | Black | 3.95 | 3.55 | 2.95 |
| 201726 | 25 ft. | Black | 6.49 | 5.95 | 5.49 |
| 201734 | 3 ft. | Blue | 1.75 | 1.59 | 1.39 |

Category 6

- Gold over nickel contacts • 550 MHz
- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 category 6

*Web Code: BBK

| Part No. | Length | Color | 1 | 10 | 100 |
|----------|--------|-------|--------|--------|--------|
| 219707 | 3 ft. | Gray | \$2.25 | \$1.95 | \$1.75 |
| 219918 | 7 ft. | Red | 3.25 | 2.95 | 2.49 |

*Without "Snagless" boot



10-Conductor Flat Ribbon Cable – Gray

.100" (2.54mm) — 24AWG

- Capacitance: 31pF/m • 10' roll
- Insulation resis.: 100MΩ • Temperature rating: 105°C
- Insulation material: 7mm polyvinyl chloride (PVC) gray

| Part No. | Cross Ref. No. | Conductor | Length | 1 | 5 | 25 |
|----------|----------------|-----------|--------|--------|--------|--------|
| 363813 | H24G-10-10 | 10 | 10' | \$9.95 | \$8.95 | \$7.95 |



Bulk Category 5e Network Cable

*Web Code: KCG



NEW MARKED IN PINK

24 AWG UTP Category 5e Enhanced - 350MHz (Non-Plenum)

| Part No. | Cross Ref. No. | Length | Color | Description | 1 | 5 |
|----------|-----------------|--------|-------|-------------|--------|--------|
| 2230889 | 10X5-804TH-25 | 25' | Blue | Stranded | \$5.95 | \$5.39 |
| 2230897 | 10X5-804TH-50 | 50' | Blue | Stranded | 9.95 | 8.95 |
| 644615 | 10X5-804TH-100 | 100' | Blue | Stranded | 16.95 | 15.95 |
| 644623 | 10X5-804TH-1000 | 1000' | Blue | Stranded | 129.95 | 119.95 |

APRIL BREAKOUT BOARD FOR IMP CARD

This board provides the bare minimum connections to get your Imp card WiFi module online. Perfect for prototypes or low-volume production.

Note: Imp card is not included.

- Full size SD card slot for Imp card
- 3.4-1.6V battery/DC input



| Part No. | Mfr. Part No. | Size | Price |
|----------|---------------|--------------|---------|
| 2189636 | APRIL | 2.0" x 1.26" | \$11.95 |

NETWORKING AND TELECOM TOOLS

These tools help a telecom or network installer get the job done. Cut and crimp your own cables, then test for a job well done using the cable tester.

2192376: Crimps 8P8C/RJ45, 6P6C/RJ12, 6P4C/RJ11, 4P4C & 4P2C modular plugs

- Strip/cuts round & flat cables
- Easy and efficient cutting & stripping
- Lightweight, durable & compact

2130749: LAN cable tester for RJ45, 10BaseT, token ring, RJ11/12 cables

- Tests continuity, open, short, cross-wired pairs
- 9841 max.



| Part No. | Mfr. | Mfr. Part No. | Price |
|----------|----------|---------------|---------|
| 2192376 | BenchPro | HT-N5684 | \$15.95 |
| 2130749 | Velleman | VTLAN4 | 17.95 |



Ethernet Network Cable Assemblies

Category 5e

- 8P8C • 4 pair • Unshielded Twisted Pair (UTP) • 350 MHz • "Snagless" boot
- 24 AWG (7 x 43) stranded • T568B color coded for easy wire tracing

| Part No. | Length | Color | 1 | 10 | 100 |
|----------|--------|-------|--------|--------|--------|
| 168292 | 3 ft. | Gray | \$1.75 | \$1.55 | \$1.39 |
| 2258494 | 7 ft. | Gray | 2.75 | 2.49 | 2.25 |
| 201697 | 3 ft. | Black | 1.75 | 1.59 | 1.39 |
| 201700 | 7 ft. | Black | 2.49 | 2.25 | 1.95 |
| 201718 | 15 ft. | Black | 3.95 | 3.55 | 2.95 |
| 201726 | 25 ft. | Black | 6.49 | 5.95 | 5.49 |
| 201734 | 3 ft. | Blue | 1.75 | 1.59 | 1.39 |

Category 6

- Gold over nickel contacts • 550 MHz
- With RJ45 plugs and molded strain reliefs
- Assembled using ETL verified 24AWG stranded cable
- Exceeds performance levels as specified in TIA/EIA 568B.2-1 category 6

*Web Code: BBK

| Part No. | Length | Color | 1 | 10 | 100 |
|----------|--------|-------|--------|--------|--------|
| 219707 | 3 ft. | Gray | \$2.25 | \$1.95 | \$1.75 |
| 219918 | 7 ft. | Red | 3.25 | 2.95 | 2.49 |

*Without "Snagless" boot

*Web Code: CAE



Cat 5e Network Crossover Cable

*Web Code: CAE

Category 5e – 350MHz

- Connect 2 PCs without a hub
- 24AWG (7 x 43) stranded • UTP
- Strain relief RJ45 connectors • 4-pair • 8P8C

| Part No. | Length | Color | 1 | 10 | 100 |
|----------|--------|-------|--------|--------|--------|
| 302041 | 7 ft. | Gray | \$2.95 | \$2.59 | \$2.29 |



5-Port Industrial Ethernet Switch

- Auto MDI/MDI-X crossover for plug-and-play
- IEEE 802.3, 802.3u, 802.3x
- DIN rail mountable
- Supports 10/100Mbps auto negotiat...
- LED indicators for power, 10/100M, Link/Act

*Web Code: CAK

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 2129019 | NS-205 | \$99.95 | \$89.95 |

Modular Plugs, Jacks, Cable & Accessories



Modular Plugs

P = No. of positions
C = No. of contacts
• Unshielded except
P/N 116602 & 116611



★ Web Code: FBB

* Order in multiples of 10

| Part No. | Mfr. | Description | Size (L" x W" x H") | UL | 1 | 10 | 100 | 500 |
|----------|----------|--|---------------------|---------|-------|-----|-----|-----|
| 103491 | ValuePro | 4P4C (RJ9) for flat oval handset wire | .49 x .30 x .26 | None | * .19 | .15 | .12 | .09 |
| 79290 | ValuePro | 6P4C (RJ14) for round stranded wire | .49 x .38 x .26 | UL94V-0 | * .15 | .12 | .09 | .07 |
| 79273 | ValuePro | 6P6C (RJ12) for flat stranded wire | .49 x .38 x .26 | None | .29 | .25 | .22 | .19 |
| 79281 | ValuePro | 8P8C (RJ45) for flat stranded wire | .85 x .46 x .31 | None | .45 | .39 | .35 | .29 |
| 119343 | Stern | 8P8C (RJ45) for round solid wire | .85 x .46 x .31 | None | .45 | .39 | .35 | .29 |
| 116602 | ValuePro | 8P8C (RJ45) for round stranded/solid* | .85 x .46 x .31 | UL94V-2 | .79 | .69 | .59 | .49 |
| 116611 | ValuePro | 8P8C (RJ45) for round solid wire* | .87 x .46 x .33 | UL94V-0 | .89 | .79 | .69 | .59 |
| 180646 | ValuePro | 10P10C (RJ50) for round stranded/solid | .85 x .46 x .31 | None | .59 | .49 | .39 | .35 |

* Shielded



Modular Jacks

★ Web Code: NEL



| Part No. | Mfr. | Description | Panel Mnt. | Size (L" x W" x H") | 1 | 10 | 100 |
|----------|------|--|------------|---------------------|------|------|-----|
| 115128 | JVP | 4P4C (N/A) side entry, std. latch, no panel stops, for handset | No | .51 x .40 x .57 | .45 | .39 | .35 |
| 2211151 | JVP | 6P4C (N/A) top entry, std. latch, no panel stops, for handset, 14" leads | No | .54 x .59 x .72 | .69 | .59 | .49 |
| 151766 | JVP | 6P4C (RJ14) side entry, standard latch, panel stops | Yes | .80 x .52 x .59 | .65 | .59 | .55 |
| 2209692 | ADM | 6P4C (RJ14) side entry, standard latch, panel stops, 6" leads | Yes | .54 x .59 x .72 | .89 | .79 | .69 |
| 124039 | JVP | 6P6C (RJ25) top entry, standard latch, panel stops, 6" leads | Yes | .54 x .59 x .72 | 1.25 | 1.09 | .99 |
| 2178216 | ADM | 6P6C (RJ25) side entry, standard latch, panel stops | Yes | .59 x .56 x .57 | .39 | .29 | .25 |
| 115837 | JVP | 6P6C (RJ25) side entry, standard latch, panel stops | Yes | .51 x .48 x .57 | .85 | .75 | .65 |
| 524488 | ADM | 8P8C (RJ45) side entry, standard latch, no panel stops | Yes | .66 x .62 x .63 | .99 | .89 | .79 |
| 115844 | ADM | 8P8C (RJ45) side entry, standard latch, no panel stops | No | .52 x .62 x .58 | .79 | .69 | .59 |
| 2150395 | ADM | 8P8C (RJ45) side entry, standard latch, panel stops | Yes | .51 x .57 x .59 | .69 | .59 | .49 |
| 524461 | AMP | 8P8C (RJ45) side entry, standard latch, no panel stops, LP | Yes | .72 x .61 x .50 | .79 | .75 | .69 |
| 2078258 | JVP | 8P8C (RJ45) side entry, standard latch, no panel stops, LP | No | .71 x .60 x .46 | .39 | .29 | .25 |
| 230449 | JVP | 8P8C (RJ45) side entry, standard latch, no panel stops, shielded | No | .84 x .63 x .53 | .89 | .79 | .75 |
| 2210183 | ADM | 8P8C (RJ45) side entry, standard latch, shielded | Yes | .84 x .63 x .52 | .65 | .55 | .45 |
| 2209713 | ADM | 8P8C (RJ45) side entry, standard latch, panel stops | Yes | .70 x .63 x .50 | .49 | .45 | .39 |



RS-232-to-Registered Modular Datacom Adapters

Simplify networking applications when changing your RS-232 port to an RJ11, RJ12 or RJ45 modular jack.

Includes: All necessary hardware and wiring

★ Web Code: RDR

66237



| Part No. | Mfr. | Description | 1 | 10 | 100 |
|----------|------|-----------------------|--------|--------|--------|
| 66191 | JVP | DB9 M to RJ45 (8P8C) | \$1.95 | \$1.75 | \$1.49 |
| 614977 | GCE | DB9 M to RJ45 (8P8C) | 2.25 | 1.95 | 1.75 |
| 2129596 | SIG | DB9 M to RJ45 (8P8C)† | 5.95 | 5.49 | 4.95 |
| 614985 | GCE | DB9 F to RJ11 (6P4C) | 2.25 | 1.95 | 1.75 |
| 114738 | JVP | DB9 F to RJ11 (6P4C) | 1.95 | 1.75 | 1.59 |

† 1 ft. cable

| Part No. | Mfr. | Description | 1 | 10 | 100 |
|----------|------|-----------------------|--------|--------|--------|
| 66203 | JVP | DB9 F to RJ12 (6P6C) | \$2.49 | \$2.25 | \$1.95 |
| 66212 | JVP | DB9 F to RJ45 (8P8C) | 2.25 | 1.95 | 1.75 |
| 615005 | GCE | DB9 F to RJ45 (8P8C) | 2.75 | 2.49 | 2.25 |
| 66237 | JVP | DB25 M to RJ45 (8P8C) | 2.25 | 1.95 | 1.49 |
| 66254 | JVP | DB25 F to RJ45 (8P8C) | 1.75 | 1.49 | 1.25 |

ARDUINO YÚN

The perfect Arduino board to use when designing connected devices and Internet of Things projects.

- On-board WiFi, Ethernet & USB host
- Program over-the-air while on same WiFi
- Full Arduino IDE support
- Built-in microSD card slot
- Linux MPU; Atheros AR9331 running OpenWRT Linux OS



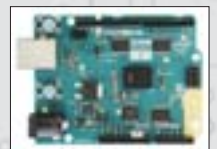
| Part No. | Mfr. | Part No. | 1 | 5 |
|----------|---------|----------|---------|---------|
| 2193441 | A000008 | | \$79.95 | \$74.95 |

intel ARDUINO 101 WITH INTEL CURIE

This board combines the classic Arduino board with modern technologies like gesture recognition, 6-axis accelerometer and gyroscope. It allows you to control projects with your phone using Bluetooth connectivity.

- x86 Quark and 32-bit ARC cores at 32MHz
- 14 digital I/O (4 PWM), 6 analog input, 3.3V
- 196kB flash, ICSP header with SPI & I2C
- Bluetooth LE, 6-axis accelerometer/gyro

| Part No. | Mfr. | Part No. | Price |
|----------|-------------|----------|---------|
| 2239331 | ATLASEDGE.1 | | \$34.95 |



Modular Telephone/Printer Sharing Cable (Gray)

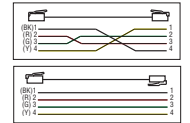
- RJ9 – 4P4C for handset or network
- RJ12/RJ25 – 6P6C for telephone or printer sharing
- RJ14 – 6P4C for two line telephone

★ Web Code: EBF



Style 1 – Reverse wiring for telephone systems

Style 2 – Straight wiring for networking/printer sharing

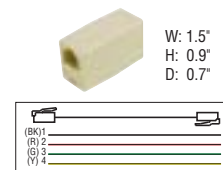


| Part No. | Conn. Style | Type | Length | 1 | 10 | 100 |
|----------|-------------|------------|--------|--------|--------|--------|
| 2211143 | 1 | RJ9-4P4C | 7ft. | \$5.59 | \$4.49 | \$3.39 |
| 115617 | 2 | RJ12-6P6C | 7ft. | 1.95 | 1.75 | 1.59 |
| 196227 | 1 | RJ14-6P4C | 7ft. | 1.75 | 1.59 | 1.39 |
| 115554 | 2 | RJ14-6P4C | 7ft. | 1.75 | 1.59 | 1.39 |
| 201232 | 2 | RJ14-6P4C† | 35ft. | 1.95 | 1.75 | 1.55 |

† Beige



Modular Couplers



W: 1.5"
H: 0.9"
D: 0.7"



★ Web Code: XAH

Straight wiring for networking/printer sharing

| Part No. | Description | 1 | 10 | 100 |
|----------|---------------------------------------|--------|--------|--------|
| 135087 | 6P6C modular coupler, RJ12 | \$1.09 | \$0.99 | \$0.89 |
| 135079 | 8P8C modular coupler, (for CAT5) RJ45 | 1.39 | 1.25 | 1.15 |



8P8C In-Line Couplers

- Panel mount thickness: 0.062" nominal
- Housing: black polyphenylene oxide
- Terminals: 0.018" diameter phosphor bronze with 50µ" gold over nickel
- Snaps into 0.595" x 0.765" rectangular wall plate cut-outs



| Part No. | Mfr. | Mfr. Part No. | 1 | 10 | 100 |
|----------|------|---------------|--------|--------|--------|
| 2160649 | JVP | MCJ-88 | \$1.95 | \$1.75 | \$1.49 |



RJ45-Plug Color Caps (Boots)

- Round strain relief
- Order in multiples of 10

★ Web Code: JBG

204410

| Part No. | Color | 10 | 100 | 500 | 1000 |
|----------|-------|--------|--------|--------|--------|
| 204410 | Black | \$1.19 | \$1.17 | \$1.15 | \$1.12 |
| 204362 | Blue | .15 | .12 | .10 | .09 |



* ADM = Adam Tech | GCE = GC Electronics | JVP = Jameco ValuePro | SIG = SIIG, Inc. | SPC = SPC Technology

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Modular Jacks, Plugs, Cable Ties & Accessories

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

STEREN Modular Jack Boxes

W: 2.0"
H: 2.2"
D: 0.9"



*Web Code: UAM

| Part No. | Description | Pricing | | |
|----------|---------------------------------|---------|--------|--------|
| | | 1 | 10 | 100 |
| 71984 | 6P6C adhesive jack RJ12 (beige) | \$.99 | \$.89 | \$.79 |
| 71651 | 8P8C adhesive jack RJ45 (beige) | 1.09 | .99 | .89 |

JAMECO ValuePro Keystone-Type RJ45 Jacks

Modular Punchdown Type

- CAT 5e classification
- Punchdown type wiring connections with color coding
- Size: 0.57"W x 1.23"D x 0.63"H

*Web Code: MBV



| Part No. | Description | Color | 1 | 10 | 100 |
|----------|-------------|-------|--------|--------|--------|
| 212951 | 8P8C (RJ45) | Blue | \$2.49 | \$2.25 | \$1.95 |
| 212944 | 8P8C (RJ45) | White | 2.49 | 2.25 | 1.95 |

BOMER EZ-RJ45 Category 5 Modular Plug

Strip the jacket and insert into the plug & pull out the wires on the other side. This ensures correct conductor order and uniformity in crimping. No wire bar and no wasted cable.



*Web Code: FBB

| Part No. | Mfr. Part No. | Description | 1 | 10 | 100 |
|----------|---------------|-------------|--------|--------|--------|
| 158115 | 300568EZ | 8P8C, CAT5 | \$1.75 | \$1.59 | \$1.45 |

Network Bulk Cable, see page 44

WIRE PROTECTING SLEEVE KIT

Protect sensitive cables & wires with fiber-braided sleeves and secure using heat shrink tubing

- 47 piece kit
- Operating temperature: -58°F to +257°F
- VW-1 and 94V-2 flame resistance

Includes: Fiber-braided sleeve (1m each of 5-9mm, 9-10mm, 7-11mm diameters) heat shrink tubing (3 each 9mm dia. x 100mm L and 12mm dia. x 100mm L) 30 black cable ties, 8 cable tie mounts.

| Part No. | Mfr. Part No. | Price |
|----------|---------------|--------|
| 2204429 | 50001RC | \$7.95 |

LED POWER SUPPLIES

Designed for indoor and/or outdoor lighting applications like street lighting, office lighting, electronic displays, architectural lighting and more!

2102596

| Part No. | Voltage | Current | Page | Price |
|----------|---------|---------|------|---------|
| 2101315 | 9-42VDC | 1.4A | 107 | \$14.75 |
| 2102596 | 12VDC | 1.67A | 107 | 9.19 |
| 2103169 | 12VDC | 5A | 107 | 14.49 |
| 2147903 | 24VDC | 13.3A | 107 | 97.95 |

JAMECO ValuePro 3" to 13" Nylon Cable Ties

Standard

- Cable ties made from UL approved Nylon 66
- Temp. range: -40°C to +85°C
- Flammability rating: UL 94V-2
- Color: natural

70561

*Web Code: QAV

Order in multiples of 100

| Part No. | Size (L" x W") | Tensile Strength | 100 | 1000 |
|----------|----------------|------------------|--------|--------|
| 70561 | 3.0 x 0.10 | 18 lbs. | \$.06 | \$.05 |
| 126544 | 4.0 x 0.10 | 18 lbs. | .05 | .04 |
| 70907 | 6.0 x 0.14 | 40 lbs. | .07 | .06 |
| 2227313 | 6.6 x 0.18 | 50 lbs. | .12 | .08 |
| 139150 | 8.0 x 0.10 | 18 lbs. | .09 | .07 |
| 182669 | 8.0 x 0.13 | 18 lbs. | .10 | .08 |
| 182685 | 8.0 x 0.18 | 18 lbs. | .10 | .08 |
| 190756 | 10.0 x 0.14 | 40 lbs. | .13 | .10 |
| 190772 | 11.0 x 0.19 | 40 lbs. | .14 | .11 |
| 190764 | 13.0 x 0.14 | 40 lbs. | .19 | .15 |

Weather Resistant (black)

- Contains Carbonate A for greater resistance to ultraviolet rays in outdoor use
- UL94V-2

UV Resistant

104142

Order in multiples of 100

| Part No. | Size (L" x W") | Tensile Strength | 100 | 1000 |
|----------|----------------|------------------|--------|--------|
| 139125 | 3.0 x 0.10 | 18 lbs. | \$.07 | \$.05 |
| 104142 | 4.0 x 0.10 | 18 lbs. | .07 | .05 |
| 104134 | 6.0 x 0.10 | 40 lbs. | .09 | .05 |
| 190782 | 8.0 x 0.13 | 40 lbs. | .12 | .09 |
| 190800 | 10.0 x 0.14 | 40 lbs. | .19 | .15 |
| 190802 | 13.0 x 0.14 | 40 lbs. | .29 | .25 |

Cable Tie Assortment Kits

- Tensile strength: 18-50 lbs.
- UL94V-2
- 4"L x 0.1"W

| Part No. | # of Pieces | # of Colors | 1 | 5 | 25 |
|----------|-------------|-------------|---------|---------|---------|
| 145701 | 1000 | 10 | \$14.95 | \$13.49 | \$11.95 |

JAMECO ValuePro Cable Tie Mounts & Cable Clamps

- Tie mount and screw tab cable clamps
- Material: UL approved nylon 66, 94V-2



Fig. 1

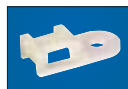


Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

Order in multiples of 10

| Part No. | Cross Ref. No. | Fig. | Description | 10 | 100 | 1000 |
|----------|----------------|------|--|--------|--------|--------|
| 171214 | HC-100 | 1 | 4-way cable tie mount, self-adhesive, use w/ 0.1"W max., 0.5" square | \$.16 | \$.14 | \$.13 |
| 182942 | 0505HC-101S | 1 | 4-way cable tie mount, self-adhesive, use w/ 0.2"W max. ties, 0.75" square | .18 | .16 | .14 |
| 71408 | HC-101 | 1 | 4-way cable tie mount, self-adhesive, use w/ 0.1"W max. ties, 0.9" square | .19 | .17 | .15 |
| 71395 | HC-102 | 1 | 4-way cable tie mount, self-adhesive, use w/ 0.2"W max. ties, 1.1" square | .23 | .20 | .18 |
| 71386 | HC-103 | 1 | 2-way cable tie mount, self-adhesive, use w/ 0.2"W max. ties, 1.1" square | .25 | .22 | .19 |
| 70595 | HC-0 | 2 | 4-way cable tie, screw type, use w/ 0.2"W max., 0.8"L x 0.4"W | .19 | .17 | .15 |
| 173761 | HC-1 | 3 | Cable tie mount, saddle type, 0.14" screw hole, 0.6"L x 0.4"W, use w/ 0.2"W max. ties | .12 | .11 | .10 |
| 182301 | 0510HC-2 | 3 | Cable tie mount, saddle type, 0.14" screw hole, 0.9"L x 0.6"W, use w/ 0.35"W max. ties | .17 | .15 | .14 |
| 182334 | 0520FC-1 | 4 | Cable tie mount, self-adhesive, 0.5"L x 0.4"W, use w/ 0.3"W max. ties | .19 | .17 | .15 |
| 173729 | UC0.5 | 5 | Cable clamp for 3/16" cable, white nylon | .12 | .09 | .06 |
| 173737 | UC1 | 5 | Cable clamp for 1/4" cable, white nylon | .12 | .10 | .09 |
| 2215591 | CC-11-16 | 5 | Cable clamp for 11/16" cable, black nylon | .12 | .09 | .07 |
| 71062 | MCV-100R | 6 | Cable ID tie (3 7/8"L x 0.1"W) with tab (.98"W x .31"H) | .15 | .11 | .09 |

JAMECO BenchPro Universal Cable Tie Tool

- 0.1" - 0.19" width cable ties
- Tension adjustable
- Spring return action
- Metal



| Part No. | Cross Ref. No. | 1 | 5 | 10 |
|----------|----------------|---------|---------|---------|
| 182298 | 0302TG-7 | \$19.95 | \$18.49 | \$16.95 |

Round-Type Strain Relief Bushings

- UL approved nylon 66, 94V-2
- Used extensively for protecting cords and to prolong cord life
- Order in multiples of 10



182369

| Part No. | Cable Type | Length (in.) | 10 | 100 | 1000 |
|----------|-----------------|--------------|--------|--------|--------|
| 182351 | SVI/SVT, 18 AWG | .43 | \$.14 | \$.12 | \$.10 |
| 182369 | SJ/SJT, 16 AWG | .58 | .19 | .15 | .12 |

17" Self-Grip/Wrap Velcro Straps

- Wrap around anything and sticks to itself for fast, easy bundling
- Bundle cords, cables, wires, pipes, tubing and trees (landscaping)
- Grip on one side, loop on back
- Eliminates plastic tie wraps and hardware
- Reusable
- Size: 17"L x 1/2"W (cut to your length)
- Color: black
- 12 pieces in pack



| Part No. | Description | 1 | 10 | 20 |
|----------|-----------------------|--------|--------|--------|
| 2125325 | Self-grip/wrap velcro | \$5.95 | \$5.39 | \$4.95 |

HARDWARE GRAB BAG

500 assorted types of screws, nuts, washers and lock washers of various sizes.

- Size include: 2-56, 4-40, 6-32 and 8-32
- Composition: plastic, steel, brass, aluminum

| Part No. | Mfr. Part No. | Wt. (lbs.) | Price |
|----------|---------------|------------|--------|
| 171571 | GB149 | 1.4 | \$6.95 |

Braided Sleeves, Heat Shrink Tubing & Heat Guns

TECHFLEX® Black FLEXO® Braided Sleeves ★ Web Code: ECQ

- Cut and abrasion resistant
- Maintains properties across wide temperature range
- Flexo® Clean-Cut Braided – UV Resistant**
- Dense braid structure provides fuller coverage
- Fray resistant when cut w/ scissors

| Part No. | Mfr. Part No. | Length | Min/Max Flex (in.) | Inside Dia. (in.) | Outside Dia. (in.) | 1 | 5 |
|----------|---------------|--------|--------------------|-------------------|--------------------|---------|---------|
| 162157 | CCP0.25BK25 | 25 ft. | 5/32 – 7/16 | 0.250 | 0.440 | \$14.95 | \$12.95 |
| 162165 | CCP0.50BK25 | 25 ft. | 1/4 – 3/4 | 0.500 | 0.750 | 16.95 | 14.95 |

Flexo® PET Braided – UV Resistant

- Braided from 10 mil polyethylene terephthalate (PET) monofilament yarns
- UL recognized component
- Conforms to FMVSS 302
- High tensile strength

| Part No. | Mfr. P/N | Length | Min/Max Flex (in.) | Inside Dia. (in.) | Outside Dia. (in.) | 1 | 5 |
|----------|-------------|--------|--------------------|-------------------|--------------------|--------|--------|
| 693679 | PTN0.25BK25 | 25 ft. | 1/8 – 7/16 | 0.250 | 0.440 | \$8.95 | \$7.95 |
| 695383 | PTN0.50BK25 | 25 ft. | 1/4 – 3/4 | 0.500 | 0.550 | 12.95 | 11.95 |

JAMECO ValuePro Flat & Tubular Tinned Copper Braids

These braids are used for shielding cables and ground straps, and as a protective braid covering for hoses and tubes.

- Woven wire construction
- 100 ft. spools
- 95% minimum shield coverage
- QQ-W-343 & ASTM B-33 compliant

| Part No. | Description | 1 | 5 | 25 |
|----------|--|---------|---------|---------|
| 2124189 | Flat 1/4" nominal width x .03" flat, 168 x 36 strand, approx. 14 AWG | \$49.95 | \$47.49 | \$44.95 |
| 2124154 | Tubular 1/4" nominal ID, 384 x 36 strand, approx. 10 AWG | 74.95 | 69.95 | 66.95 |
| 2124162 | Tubular 3/8" nominal ID, 384 x 36 strand, approx. 10 AWG | 89.95 | 79.95 | 74.95 |

Sumitomo Electric Heat Shrink Solder Termination Sleeve

- High performance transparent heat-shrinkable outer sleeve
- Fluxed solder preform with thermochromics indicator paint
- Pre-installed 6", 20 AWG ground lead/braid

| Part No. | Mfr. Part No. | Description | 1 | 10 | 100 | 250 | 500 |
|----------|---------------|---------------------------------------|--------|--------|--------|--------|--------|
| 2217887 | H-ML-4-94 | Heat shrink solder termination sleeve | \$.69 | \$.59 | \$.49 | \$.39 | \$.35 |

3M JAMECO ValuePro Heat Shrink Tubing Kits

A selection of heat shrink tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F (135°C). Shrink temp around 194°F. 2:1 shrink ratio.



2:1 Shrink Ratio

★ Web Code: HST

| Part No. | Mfr. | Description | Total Pcs. | Piece Length | Tube Diameter | | | | | | | | | | Pricing | |
|----------|----------|--------------------------|------------|--------------|---------------|-------|------|-------|------|------|------|------|----|----|---------|--------|
| | | | | | 1/16" | 3/32" | 1/8" | 3/16" | 1/4" | 3/8" | 1/2" | 3/4" | 1" | | 1 | 5 |
| 2237394 | ValuePro | Black polyolefin, 2:1 | 24 | 4" | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | \$2.95 | \$2.65 |
| 2237407 | ValuePro | Black polyolefin, 2:1 | 24 | 4" | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 2.95 | 2.65 |
| 2196641 | Velleman | Black polyolefin, 2:1 | 40 | 4.72" | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 4.95 | 4.49 |
| 2237423 | ValuePro | Black polyolefin, 2:1 | 50 | 4" | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 13.95 | 12.49 |
| 2237440 | ValuePro | Black polyolefin, 2:1 | 50 | 4" | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 17.95 | 16.49 |
| 285481 | 3M | Black polyolefin, 2:1 | 102 | 6" | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 69.95 | 64.95 |
| 2095963 | ValuePro | Black polyolefin, 2:1 | 154 | 4" | 56 | 35 | 28 | 18 | 9 | 8 | 8 | 8 | 8 | 8 | 17.95 | 15.95 |
| 2095971 | ValuePro | Black, dual wall, 2:1 | 37 | 4" | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 19.95 | 18.95 |
| 2237538 | ValuePro | 0-9 number markers* | 360 | 0.5" | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 11.95 | 10.95 |
| 2205771 | Velleman | 5 color, flame retardant | 170 | 3.9" | 60 | 40 | 30 | 20 | 10 | 10 | 10 | 10 | 10 | 10 | 10.95 | 9.95 |
| 645976 | 3M | 7 colors | 133 | 6" | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 69.95 | 64.95 |
| 2095947 | ValuePro | 7 colors | 154 | 4" | 56 | 35 | 28 | 18 | 9 | 8 | 8 | 8 | 8 | 8 | 19.95 | 17.95 |

*6 black pcs per size, per digit, plus bonus 60 pcs color, assorted sizes, unmarked.

NTE® Heat Guns and Strippers

- 191943: • 3-pos. switch (hot/off/cool)
- 2117413: • Fast and easy use
- Built-in bracket • Weight: 1.1 lbs.

★ Web Code: QAJ



191943

2007062

| Part No. | Mfr. | Product No. | Description | Watts | Heat Setting (°F) | Temp. (°F max.) | 1 | 5 |
|----------|----------|-------------|--------------------------|-------|-------------------|-----------------|---------|---------|
| 2117413 | NTE | HG300-D | Mini heat gun | 350 | 482-662 | 662 | \$24.95 | \$22.49 |
| 254925 | BenchPro | 1001A | Economical heat gun | 1200 | 600 & 1000 | 1000 | 42.95 | 39.95 |
| 76865 | BenchPro | G1HG1 | Heat gun/stripper | 1500 | 600 & 1100 | 1100 | 46.95 | 44.95 |
| 191943 | Weller | 6996C | Industrial heat gun | 250 | 750-800 | 800 | 139.95 | 134.95 |
| 2007062 | BenchPro | 1004 | Accessory kit for 254925 | — | — | — | 9.95 | 8.95 |

Polyolefin Round Heat Shrink Tubing

FIT221/FIT221B Series

Use for insulation and repair, wire and cable harnessing/ bundling, cable and connector protection.

- Operating temp: -55°C to 135°C
- Approx. shrink ratio: 2:1 @ 121°C
- Dielectric strength: 500V/mil (197kV/cm)

Clear (4-foot pieces) – Round ★ Web Code: HST

| Part No. | Mfr. Part No. | ID (in.) | Before/After | 1 | 10 | 100 |
|----------|---------------|-----------|--------------|--------|--------|--------|
| 419119 | FIT221-3/64 | .046/.023 | .... | \$ .99 | \$.79 | \$.69 |
| 419135 | FIT221-1/16 | .063/.031 | .... | 1.09 | .89 | .75 |
| 419231 | FIT221-3/8 | .375/.187 | .... | 1.95 | 1.69 | 1.49 |
| 419258 | FIT221-1/2 | .500/.250 | .... | 2.09 | 1.85 | 1.65 |
| 419274 | FIT221-3/4 | .750/.375 | .... | 2.89 | 2.49 | 2.25 |
| 2113682 | TT-72801 | 1.00/.500 | .... | 3.49 | 2.95 | 2.69 |

Black (4-foot pieces) – Round

| | | | | | | |
|---------|-------------------|-----------|------|--------|--------|--------|
| 419101 | FIT221B-3/64 | .046/.023 | .... | \$ .89 | \$.79 | \$.69 |
| 419127 | FIT221B-1/16 | .063/.031 | .... | .99 | .85 | .75 |
| 419143 | FIT221B-3/32 | .093/.046 | .... | .99 | .85 | .75 |
| 2220251 | FIT221B-3/32-100* | .093/.046 | .... | 24.95 | 22.95 | 20.95 |
| 419160 | FIT221B-1/8 | .125/.062 | .... | 1.05 | .89 | .79 |
| 419186 | FIT221B-3/16 | .187/.093 | .... | 1.29 | 1.15 | .99 |
| 419207 | FIT221B-1/4 | .250/.125 | .... | 1.49 | 1.39 | 1.29 |
| 419223 | FIT221B-3/8 | .375/.187 | .... | 1.75 | 1.49 | 1.35 |
| 419240 | FIT221B-1/2 | .500/.250 | .... | 2.19 | 1.95 | 1.75 |
| 2192721 | ESP200-3/4 | .750/.375 | .... | 2.89 | 2.49 | 2.25 |
| 2230731 | ATUM-24/6-D-STK†† | .945/.236 | .... | 7.95 | 6.95 | 5.95 |
| 2258751 | HML-1-1/2† | 1.50/.512 | .... | 6.95 | 6.25 | 5.59 |

*100' roll †3-1 shrink ratio ††4-1 shrink ratio

Flat Black Heat Shrink Tubing

- 2:1 uniform shrink ratio (approx.)
- Shrink temp.: 125°C
- VW-1 rated
- UL/CSA

Polyolefin Tubing – Flat

- Only sold in 10' & 100' lengths

| Part No. | Dia. Before (mm) | Length (ft.) | 1 | 10 |
|----------|------------------|--------------|--------|--------|
| 644834 | 0.12" (3) | 10 | \$2.49 | \$2.25 |
| 644851 | 0.12" (3) | 100 | 14.95 | 13.49 |
| 644869 | 0.16" (4) | 10 | 2.75 | 2.49 |
| 644877 | 0.16" (4) | 100 | 16.95 | 14.95 |
| 644914 | 0.20" (5) | 100 | 19.95 | 17.95 |
| 644931 | 0.24" (6) | 10 | 3.49 | 3.15 |
| 644949 | 0.24" (6) | 100 | 24.95 | 21.95 |
| 2243997 | 0.29" (7.3) | 4 | .99 | .89 |
| 2243989 | 0.29" (7.3) | 10 | 2.95 | 2.75 |
| 2243971 | 0.29" (7.3) | 100 | 14.95 | 13.49 |
| 2158371 | 0.29" (7.3) | 164 | 24.95 | 21.95 |
| 644957 | 0.31" (8) | 10 | 3.95 | 3.59 |
| 644965 | 0.31" (8) | 100 | 29.95 | 26.95 |
| 644990 | 0.59" (15) | 10 | 6.95 | 6.25 |
| 2179796 | 0.75" (19) | 100 | 29.95 | 26.95 |

Round Black Polyolefin Flexible Tubing

- Dielectric strength: 1300V
- Temp. range: -45°C to +125°C
- Flame retardant VW-1
- Precut 39" length (1 meter)

| Part No. | Dia. Before (mm) | 1 | 10 | 100 |
|----------|------------------|--------|--------|--------|
| 71871 | .079" (2.0) | \$.79 | \$.69 | \$.59 |
| 72063 | .197" (5.0) | .99 | .85 | .65 |

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

JAMECO ValuePro

Audio/Video Cables and Adapters



*Web Code: QAP



3.5mm Audio Splitter and Extension/Patch Cables

*Web Code: JAU

| Part No. | Fig. | Description | 1 | 10 | 100 |
|----------|------|---|--------|--------|--------|
| 228398 | 1 | 6' 3.5mm stereo Y-cable F jacks (2) to M plug | \$2.29 | \$1.95 | \$1.59 |
| 2174637 | 2 | 2' 3.5mm stereo M to M plug (black) | 1.25 | 1.09 | .99 |
| 228494 | 2 | 6' 3.5mm stereo M to M plug (black) | 1.95 | 1.75 | 1.49 |
| 228515 | 3 | 6' 3.5mm stereo M plug to F jack (black) | 2.95 | 2.65 | 2.39 |
| 228507 | 2 | 12' 3.5mm stereo M to M plug (black) | 2.95 | 2.65 | 2.39 |
| 228523 | 3 | 12' 3.5mm stereo M plug to F jack (black) | 2.95 | 2.75 | 2.39 |

RCA Audio/Video Patch Cables

| Part No. | Fig. | Description | 1 | 10 | 100 |
|----------|------|--|--------|--------|--------|
| 2081852 | 4 | 6' RCA component video (3) M to (3) M, HD-RGB | \$2.49 | \$2.25 | \$1.95 |
| 228443 | 6 | 3' RCA stereo (2) M to (2) M plugs, gold plated | 1.95 | 1.75 | 1.49 |
| 1949470 | 8 | 6' RCA M to M plug, gold plated | 1.25 | 1.09 | .89 |
| 106375 | 8 | 6' RCA M to M plug (black) | 1.95 | 1.75 | 1.49 |
| 2082417 | 7 | 6' RCA M to M plug (yellow) | 1.95 | 1.75 | 1.39 |
| 683059 | 9 | 6' RCA M BNC to M RCA cable (black) | 3.95 | 3.59 | 3.29 |
| 29349 | 7 | 10' RCA mono M to M plug (yellow) | 2.25 | 1.95 | 1.69 |
| 225980 | 5 | 12' RCA (3) M to (3) M plugs, gold plated | 2.49 | 2.25 | 1.95 |
| 228478 | 6 | 25' RCA stereo (2) M to (2) M plugs, gold plated | 3.95 | 3.59 | 3.19 |

RCA Audio/Video Extension Cables

| | | | | | |
|--------|----|----------------------------------|--------|--------|--------|
| 228355 | 10 | 6' RCA M plug to RCA (2) F jacks | \$1.25 | \$1.09 | \$.99 |
| 228419 | 11 | 6' RCA mono M plug to F jack | 1.49 | 1.25 | 1.19 |

RCA to 3.5mm Audio Cables

| | | | | | |
|---------|----|--|--------|--------|--------|
| 228401 | 12 | 6' RCA stereo (2) M plugs to 3.5mm stereo M plug | \$1.95 | \$1.75 | \$1.49 |
| 2260287 | 13 | 6' pigtail leads to 3.5mm stereo M plug | 2.95 | 2.59 | 2.29 |
| 2230053 | 14 | 1.42' mini CCTV mic, (1) F RCA & 2.1mm DC jack | 2.95 | 2.59 | 2.25 |



RCA Audio Adapters & Couplers

*Web Code: KBQ

| Part No. | Manufacturer | Product No. | Description | 1 | 10 | 100 |
|----------|--------------|-------------|--------------------------------------|-------|-------|-------|
| 228283 | Steren | 251-120 | RCA F jack to mono 1/4" M plug | \$.69 | \$.59 | \$.45 |
| 228267 | Steren | 251-116 | RCA F to F jack coupler, gold plated | .69 | .59 | .45 |

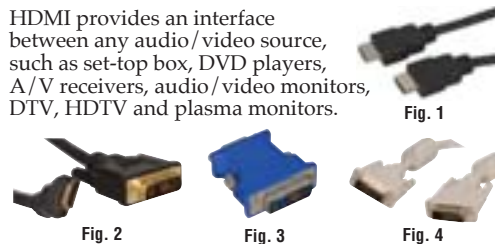


JAMECO ValuePro

DVI & High Definition Multimedia Interface (HDMI) Cables & Adapters

*Web Code: DEM

HDMI provides an interface between any audio/video source, such as set-top box, DVD players, A/V receivers, audio/video monitors, DTV, HDTV and plasma monitors.

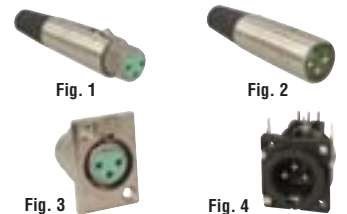


| Part No. | Fig. | Product No. | Description | 1 | 5 | 25 |
|----------|------|---------------|--|--------|--------|--------|
| 2205421 | 1 | E057319000 | HDMI male to male, 1.5 meters | \$3.49 | \$2.95 | \$2.75 |
| 1944151 | 1 | 10HM-01128-02 | HDMI male to male, 2 meters | 4.95 | 4.49 | 3.95 |
| 1944169 | 1 | 10HM-01128-05 | HDMI male to male, 5 meters | 9.95 | 8.95 | 7.95 |
| 2145140 | 2 | PCM-2296-03M | HDMI male to DVI-D single link, 3 meters | 3.95 | 3.59 | 3.29 |
| 2192536 | 3 | E27334-001 | VGA-F to DVI-A male adapter | 3.95 | 3.59 | 3.29 |
| 1944214 | 3 | 30HM-15328-A | HDMI female to DVI-D dual link adapter | 6.95 | 5.95 | 4.95 |
| 320346 | 4 | 5313118067F0 | DVI single link cable, 2 meters, black | 3.95 | 2.95 | 1.95 |

Switchcraft® Microphone (XLR) Connectors

*Web Code: ABV

| Part No. | Manufacturer | Product No. | Fig. | Description | Dimensions (mm) | 1 | 10 | 25 |
|----------|--------------|-------------|------|---|-----------------------|--------|--------|--------|
| 319003 | Steren | 250-720 | 1 | 3-pin female, straight cord plug w/ latchlock | 81.5L x 7.43D | \$2.25 | \$1.95 | \$1.75 |
| 319011 | Steren | 250-710 | 2 | 3-pin male, straight cord plug, latch holder | 70.6L x 7.31D | 2.95 | 2.65 | 2.39 |
| 281640 | Switchcraft | D3F | 3 | 3-pin female, metal, panel mount, latchlock | 27.0W x 36.3H x 30.6D | 3.95 | 3.75 | 3.49 |
| 1774711 | Switchcraft | PQG3M5T111 | 4 | 3-pin male, plastic panel mount, PCB term. | 27.1W x 30.0H x 19D | 2.95 | 2.59 | 2.29 |



SUPER SNOOPER STEREO EAR

Stereo audio amplifier boosts sound up to 50 times. Use while watching TV, as a gadget, or a science project. It has a volume control and on/off switch.

- Kit requires (3) AA batteries (recommend P/N 198707)
- Size: 2.4" x 2.1" x 1.7"
- 35-piece kit

| Part No. | Difficulty Level | Price |
|----------|-----------------------|---------|
| 2130984 | Beginner/Intermediate | \$11.95 |



COLOR ORGAN KITS

Visually display low, mid and high frequencies of an audio source with bright flashing LEDs. Soldering is required.

2155541: Beginner version with PCB and defined component locations. Recommend 12VDC power supply (P/N: 252808 or similar).

2126272: Intermediate version to be laid out and soldered on a blank protoboard.

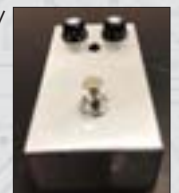
| Part No. | Difficulty Level | Price |
|----------|------------------|---------|
| 2155541 | Beginner | \$39.95 |
| 2126272 | Intermediate | 34.95 |



ANALOG GUITAR OVERDRIVE PEDAL KIT

Build a solid-state overdrive/distortion effects pedal for guitars and other musical instruments. The pedal can be "tweaked" during assembly to deliver tones for blues, rock or metal. Or try your own parts to build an effect that is uniquely your own.

| Part No. | Difficulty Level | Price |
|----------|------------------|---------|
| 2176106 | Intermediate | \$44.95 |



Switchcraft

JAMECO ValuePro

Stereo, Phone, Audio Plugs & Jacks

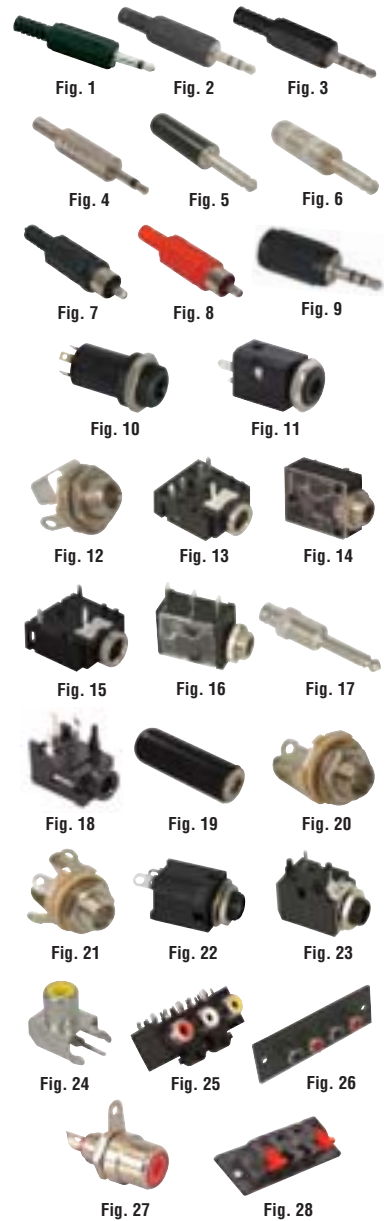
*Web Code: **AJS**

| Part No. | Mfr. | Product No. | Fig. | Description | Dimensions (mm) | 1 | 10 | 100 |
|----------|-------------|--------------------------|------|--|------------------------|--------|--------|--------|
| 101152 | ValuePro | PJ1035 | 1 | 3.5mm mono audio plug, plastic* | 53L x 3.9 ID | \$.99 | \$.85 | \$.69 |
| 231176 | ValuePro | AP340 | 2 | 3.5mm stereo audio plug, plastic* | 53L x 4.12 ID | 1.19 | .99 | .85 |
| 2200954 | ValuePro | JR1037 | 3 | 3.5mm audio plug, 4-position, plastic* | 47.8L x 4.5 ID | 2.29 | 1.95 | 1.75 |
| 231160 | ValuePro | PJ1035 | 4 | 3.5mm mono audio plug, metal* | 43.7L x 4.27 ID | 1.49 | 1.25 | .99 |
| 231167 | ValuePro | AP343 | 4 | 3.5mm stereo audio plug, metal* | 52.4L x 4.25 ID | 1.75 | 1.49 | 1.25 |
| 281754 | Switchcraft | 250 | 5 | 1/4" mono phone audio plug, plastic* | 73.7L x 7.6 ID | 4.49 | 3.95 | 3.59 |
| 281789 | Switchcraft | 297 | 6 | 1/4" stereo phone audio plug, metal* | 73.7L x 7.6 ID | 4.95 | 4.49 | 3.95 |
| 229921 | ValuePro | JR1625BLK | 7 | RCA plug, plastic, black (5 pk)* | 51.5L x 5.0 ID | 1.95 | 1.75 | 1.49 |
| 229930 | ValuePro | JR1625 | 8 | RCA plug, plastic, red (5 pk)* | 51.5L x 5.0 ID | 1.95 | 1.75 | 1.49 |
| 2202933 | ValuePro | M1001 | 9 | 3.5mm mono (F) to 3.5mm stereo (M) adapter | 37.3L x 3.5ID | .79 | .69 | .59 |
| 2201607 | ValuePro | PJ31640 ² | 10 | 3.5mm audio jack, 4-pos., panel mount | 16.35L x 8.0D | 1.95 | 1.75 | 1.49 |
| 2095437 | ValuePro | J355W ¹ | 11 | 3.5mm stereo audio jack, panel mt., terminal | 10.1H x 8.4W x 17.6L | 1.29 | 1.15 | .99 |
| 281834 | Switchcraft | 415 | 12 | 3.5mm audio jack, panel mount, terminal | 7.8L x 5.9 Dia. | 2.95 | 2.59 | 2.29 |
| 568392 | Switchcraft | 35RACP4BH3 ¹ | 13 | 3.5mm stereo jack, rt. angle horz., threaded† | 6.0H x 11.0W x 8.0L | 1.35 | 1.19 | 1.05 |
| 2081334 | Shogyo | 354-3PY | 13 | 3.5mm mono jack, rt. angle horz., non-threaded | 6.1H x 11.9W x 12.0L | .79 | .69 | .59 |
| 2100291 | ValuePro | 354-PY (CT) ¹ | 14 | 3.5mm mono jack, rt. angle horz., threaded | 6.45H x 11.7W x 14.3L | .89 | .79 | .69 |
| 2168131 | Adam Tech | ASJ | 15 | 3.5mm stereo jack, rt. angle horz., non-threaded | 6.0H x 12.0W x 14.0D | 1.09 | .89 | .75 |
| 2168149 | ValuePro | ASJ-5-3 | 16 | 3.5mm stereo jack, rt. angle ver., non-threaded, PCB | 12.3H x 8.1W x 14.0L | .99 | .85 | .75 |
| 1766121 | Switchcraft | 35RACP2AV ¹ | 16 | 3.5mm mono jack, rt. angle ver., threaded | 11.6H x 7.7W x 14.0L | .95 | .85 | .75 |
| 2161553 | ValuePro | PJ-3064AM ¹ | 16 | 3.5mm stereo jack, rt. angle ver., threaded | 12.3H x 8.1W x 14.0L | 1.39 | 1.19 | .99 |
| 2178110 | Pomona | 1297 | 17 | BNC female to 1/4" male 2-pos. phone plug | 63.5L | 13.95 | 13.49 | 12.95 |
| 2095373 | ValuePro | HTJ-035-22D | 18 | 3.5mm mono jack, rt. angle horz., non-threaded, blk. | 10.45H x 10.0W x 14.0L | .59 | .49 | .39 |
| 2180842 | Switchcraft | 838 | 19 | 1/4" mono phone jack, in-line | 54.4L x 18.7D | 4.95 | 4.49 | 3.95 |
| 2161490 | ValuePro | JR-1804 ³ | 20 | 1/4" mono phone audio jack, 2-pos., single open | 12.8L x 9.1" Dia. | .99 | .89 | .75 |
| 281738 | Switchcraft | 114 | 20 | 1/4" mono phone audio jack, 2-pos., single open | 12.8L x 9.1 Dia. | 2.95 | 2.59 | 2.29 |
| 2161502 | ValuePro | JR-1803 ³ | 21 | 1/4" mono phone audio jack, 3-pos., single closed | 31.7L x 9.4 Dia. | 1.75 | 1.59 | 1.45 |
| 281746 | Switchcraft | 12B ⁴ | 21 | 1/4" stereo phone audio jack, 3-pos., double open | 14.7L x 9.1 Dia. | 2.95 | 2.59 | 2.29 |
| 1774016 | Switchcraft | M112BX ⁴ | 22 | 1/4" mono phone jack, 3 cond. plastic bushing | 19.9L x 15.7W x 15.7H | 1.79 | 1.65 | 1.49 |
| 2178646 | Switchcraft | MNS112B ⁴ | 22 | 1/4" mono phone jack, 3 cond, plastic bushing | 19.9L x 15.7W x 15.7H | 2.25 | 1.95 | 1.75 |
| 297537 | Switchcraft | N111 ⁴ | 22 | 1/4" mono phone jack, 2 Conn. | 19.8L x 15.6W x 15.6H | 1.95 | 1.75 | 1.49 |
| 1774913 | Switchcraft | RN111PC | 23 | 1/4" mono phone jack, right angle, PCB | 15.9L x 32.5W x 17.2H | 1.95 | 1.75 | 1.49 |
| 220581 | ValuePro | KY-006-1(W) | 24 | RCA jack, PCB mount, white, metal | 11.2H x 14.2W x 12.2L | .69 | .59 | .49 |
| 220556 | ValuePro | KY-006-1(R) | 24 | RCA jack, PCB mount, red, metal | 11.2H x 14.2W x 12.2L | .69 | .59 | .49 |
| 220572 | ValuePro | KY-006-1(B) | 24 | RCA jack, PCB mount, black, metal | 11.2H x 14.2W x 12.2L | .69 | .59 | .49 |
| 220564 | ValuePro | KY-006-1(Y) | 24 | RCA jack, PCB mount, yellow, metal | 11.2H x 14.2W x 12.2L | .69 | .59 | .49 |
| 2076359 | ValuePro | AJ842G3 | 25 | RCA jack, PCB mount, rt. angle, red/white/yellow (3) | 40.6H x 22.9W x 21.6L | .79 | .65 | .49 |
| 319249 | Velleman | CA066 | 26 | RCA jack, 2 pair stereo, panel mount, red/white | 73.7H x 12.2W x 24.9L | .99 | .85 | .75 |
| 159485 | ValuePro | CS7021-DN-BLK-R5 | 27 | RCA jack, panel mount, black | 21.3W x 9.7H | 1.19 | 1.05 | .95 |
| 172340 | ValuePro | CS7021-DN-RD-R5 | 27 | RCA jack, panel mount, red | 21.3W x 9.7H | 1.09 | .95 | .85 |
| 2123469 | GC/Waldom | 33-1404 | 28 | Speaker terminal board, 4-pos., pushbutton | 76.2H x 25.4W x 31.8D | 2.75 | 2.19 | 1.79 |

Additional panel mounting hardware – ¹ 2183218, ² 2182602, ³ 2182709, ⁴ 2182611 ⁵ 2183349 (includes washer & nuts), see module below

† Closed circuit

* Length x strain relief ID



Interconnects

JAMECO ValuePro

Panel Mounting Hardware for Plugs and Jacks

*Web Code: **PAM**

| Part No. | Ref. # | Description | 1 | 10 |
|----------|--------|--|--------|--------|
| 2183218 | 1 | M6 x 0.50"; (1) flat washer, (2) hex nuts | \$.69 | \$.59 |
| 2182602 | 2 | M8 x 0.75"; (1) flat washer, (2) hex nuts | .79 | .69 |
| 2182709 | 3 | M9 x 0.75"; (1) flat washer, (2) hex nuts | .69 | .59 |
| 2182611 | 4 | 3/8-32 NEF thread; (1) internal tooth washer, (2) hex nuts | .69 | .59 |
| 2183349 | 5 | 1/4-32 thread; (1) internal tooth washer, (2) hex nuts | .99 | .89 |



DC CORDS WITH PIGTAIL WIRES

With pigtail wires to DC jacks or plugs, you can conveniently patch in power to your projects. Also available in 24 AWG.

| Part No. | Description | AWG | 1 | 10 |
|----------|------------------------------------|-----|--------|--------|
| 2229706 | Plug, 2.5 x 5.5 x 12, 6 foot cable | 18 | \$2.59 | \$2.35 |
| 2229714 | Jack, 2.5 x 5.5 x 12, 6 foot cable | 18 | 2.95 | 2.59 |
| 2229722 | Jack, 2.1 x 5.5 x 12, 6 foot cable | 18 | 2.59 | 2.35 |
| 2229731 | Plug, 2.1 x 5.5 x 12, 6 foot cable | 18 | 2.59 | 2.35 |



BEST SELLING SWITCHING TABLE-TOP POWER SUPPLIES

| Part No. | Power (W) | VDC/Amps | 1 | 10 |
|----------|-----------|----------|---------|---------|
| 1952337 | 25 | 5/5.0 | \$16.95 | \$15.49 |
| 1952370 | 60 | 12/5.0 | 18.95 | 16.95 |
| 1952214 | 60 | 24/2.5 | 18.95 | 16.95 |
| 2135208 | 120 | 24/5.0 | 39.95 | 35.95 |



*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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D-Subminiature Connectors

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

AMP Amphenol Connex

D-Subminiature Connectors

JAMECO ValuePro

* Web Code: EAB

223010

Right Angle PCB Mount

Metal .318" Setback – Tin plated short style



* Web Code: ESO

| Part No. | Manufacturer | Product No. | Contacts | Gender | 1 | 10 | 100 |
|----------|--------------|---------------|----------|--------|-------|-------|-------|
| 104943 | ValuePro | 1008-9P-R | 9 | M | \$.75 | \$.65 | \$.55 |
| 104952 | ValuePro | DE09-SL-25 | 9 | F | \$.89 | \$.79 | \$.69 |
| 71125 | ValuePro | 1008-15PCKAB | 15 | M | \$.85 | \$.75 | \$.65 |
| 77956 | ValuePro | 1008-15S-R | 15 | F | 1.05 | .95 | .85 |
| 2145001 | ValuePro | PT285805-15†† | 15 | F | .59 | .49 | .39 |
| 1952273 | Kycon | HDDSUB-15S†* | 15 | F | .45 | .39 | .29 |
| 71466 | ValuePro | 1010-15-S* | 15 | F | .99 | .89 | .79 |
| 15150 | ValuePro | 1008-25P-R | 25 | M | 1.09 | .99 | .89 |
| 15182 | ValuePro | 1008-25S-R | 25 | F | .99 | .89 | .79 |
| 71706 | ValuePro | 1008-37P\$ | 37 | M | 1.49 | 1.25 | 1.09 |

* High Density † Without female jack screws †† Non-removable jack screws \$ With jack screws

Right Angle PCB Mount

Metal .590" Set Back – Tin plated long style

• Current rating: 1A



* Web Code: HAN

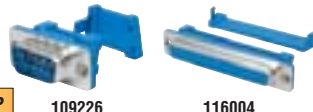
| Part No. | Manufacturer | Product No. | Contacts | Gender | 1 | 10 | 100 |
|----------|--------------|----------------|----------|--------|--------|-------|-------|
| 104970 | ValuePro | 1011-9P-R | 9 | M | \$1.09 | \$.99 | \$.89 |
| 2180981 | JST | JKEY9S3D13 | 9 | F | .79 | .69 | .59 |
| 104978 | ValuePro | 1011-92-R | 9 | F | 1.09 | .99 | .89 |
| 104985 | Astron | DA15P590† | 15 | M | .49 | .45 | .39 |
| 2227348 | ADI | ADIN-21ST-25S* | 25 | F | 2.49 | 2.25 | 1.95 |
| 104993 | ValuePro | 1011-15S | 15 | F | .49 | .39 | .35 |
| 105013 | ValuePro | 1011-25S | 25 | F | 1.49 | 1.25 | 1.09 |

† Without female jack screws * Gold

IDC Ribbon Cable

- Contact material: phosphor bronze
- Terminates with standard D-type connectors

* Web Code: MAP



| Part No. | Manufacturer | Product No. | Shell | Cont. | Gender | 1 | 10 | 100 |
|----------|--------------|---------------------|---------|-------|--------|--------|--------|--------|
| 109226 | ValuePro | 1007-9P/M-R | Metal | 9 | M | \$2.09 | \$1.89 | \$1.65 |
| 12504 | ValuePro | 1007-9P/P-R | Plastic | 9 | M | 1.75 | 1.49 | 1.25 |
| 109218 | ValuePro | 1007-9S/M-R | Metal | 9 | F | 2.09 | 1.89 | 1.65 |
| 12521 | ValuePro | 1007-9S-R | Plastic | 9 | F | 1.75 | 1.49 | 1.25 |
| 117382 | ValuePro | 1007-15P/M-R | Metal | 15 | M | 2.25 | 1.95 | 1.75 |
| 12319 | ValuePro | 1007-15P | Plastic | 15 | F | .79 | .69 | .59 |
| 116012 | ValuePro | 1007-15SM-R | Metal | 15 | F | 1.95 | 1.75 | 1.49 |
| 115984 | ValuePro | 1007-25P/M-R | Metal | 25 | M | 2.65 | 2.39 | 2.09 |
| 2168034 | Adam Tech | DB25-PF-M2 | Metal | 25 | M | 2.49 | 2.25 | 1.99 |
| 12335 | ValuePro | 1007-25P/P | Plastic | 25 | M | 2.09 | 1.85 | 1.65 |
| 115976 | ValuePro | 1007-25S/M-R | Metal | 25 | F | 2.65 | 2.39 | 2.09 |
| 2162708 | CWI | CWR-180-373-003W/O# | Metal | 37 | M | .69 | .59 | .49 |
| 115992 | ValuePro | 1007-37P/M-R | Metal | 37 | M | 2.95 | 2.65 | 2.39 |
| 116004 | ValuePro | 1007-37S/M-R | Metal | 37 | F | 2.95 | 2.65 | 2.39 |

Without strain relief

JAMECO ValuePro

Panel Bracket Cable Assembly

- Standard back panel bracket
- Length: 12"
- Ribbon cable with header connector

* Web Code: RAX



| Part No. | Description | Port | 1 | 10 | 100 |
|----------|-------------------------|----------|--------|--------|--------|
| 355688 | DB9M to 10-pin header F | 1 serial | \$1.49 | \$1.35 | \$1.19 |

Metal Solder-Cup

| Part No. | Manufacturer | Product No. | Contacts | Gender | 1 | 10 | 100 |
|----------|--------------|-------------|----------|--------|-------|-------|-------|
| 15748 | ValuePro | 1001-9P-R | 9 | M | \$.89 | \$.79 | \$.69 |
| 15771 | Steren | 500-109 | 9 | F | .85 | .69 | .55 |
| 223052 | AMP | 747905-2 | 9 | F | 2.49 | 2.25 | 1.95 |
| 15035 | ValuePro | 1001-15P-R | 15 | M | 1.05 | .95 | .85 |
| 15078 | ValuePro | 1002-15P-R* | 15 | M | 1.16 | .89 | .85 |
| 15052 | ValuePro | 1001-15S-R | 15 | F | 1.05 | .95 | .85 |
| 164823 | ValuePro | 1002-15S-R* | 15 | F | 1.09 | .89 | .75 |
| 15115 | ValuePro | 1001-25P-R | 25 | M | 1.35 | 1.09 | .99 |
| 223010 | AMP | 747912-2 | 25 | M | 3.95 | 3.59 | 3.25 |
| 15157 | Steren | 500-125 | 25 | F | 1.35 | 1.09 | .99 |
| 15473 | ValuePro | 1001-37P-R | 37 | M | 1.45 | 1.19 | 1.09 |
| 15500 | ValuePro | 1001-37S | 37 | F | 1.35 | 1.09 | .99 |
| 2185758 | Amphenol-RF | 17-20370-11 | 37 | M | 1.75 | 1.49 | 1.25 |
| 482732 | Amphenol | EDD50P | 50 | M | 1.95 | 1.75 | 1.59 |
| 482741 | Amphenol | EDD50S | 50 | F | 2.95 | 2.59 | 2.25 |

* High Density

* Web Code: SBK

Metal Straight PCB Mount

| Part No. | Manufacturer | Product No. | Contacts | Gender | 1 | 10 | 100 |
|----------|--------------|-------------|----------|--------|-------|-------|-------|
| 111692 | ValuePro | 1003-9P-R | 9 | M | \$.59 | \$.49 | \$.39 |
| 15781 | ValuePro | 1003-9S-R | 9 | F | .59 | .49 | .35 |
| 176760 | ValuePro | DA15PPCB | 15 | M | .65 | .55 | .45 |
| 2133510 | AMP | 749798-1* | 15 | M | .39 | .29 | .25 |
| 15123 | ValuePro | 1003-25P-R | 25 | M | .75 | .65 | .55 |
| 15165 | ValuePro | 1003-25S | 25 | F | .85 | .75 | .65 |
| 180021 | ValuePro | 1003-37S** | 37 | F | 1.25 | 1.09 | .99 |

* High Density

** Black

Crimp-Type

* Web Code: UBR

| Part No. | Manufacturer | Product No. | Contacts | Gender | 1 | 10 | 100 |
|----------|--------------|-----------------|----------|--------|-------|-------|-------|
| 73189 | Steren | 500-010 | 9 | M | \$.69 | \$.59 | \$.49 |
| 73197 | Steren | 500-110 | 9 | F | .69 | .59 | .49 |
| 222842 | AMP | 205203-3 (Tin) | 9 | F | .89 | .79 | .69 |
| 222691 | AMP | 205203-1 (Zinc) | 9 | F | .99 | .89 | .79 |
| 38789 | ValuePro | 500-027 | 25 | M | .89 | .75 | .65 |
| 38771 | Steren | 500-1N27 | 25 | F | .89 | .75 | .65 |

* Additional D-Sub Connectors — Enter Web Code DSB

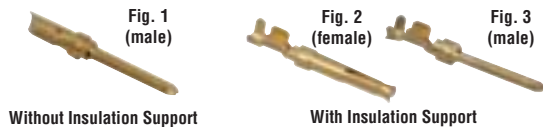
BEST SELLING AC & DC FANS

| Part No. | Voltage | Size | CFM | Page | Price |
|----------|---------|----------------|------|------|--------|
| 2258814 | 5 VDC | 40 x 40 x 10 | 5 | 84 | \$4.95 |
| 2258451 | 12 VDC | 50 x 50 x 15 | 17 | 85 | 6.95 |
| 2227276 | 12 VDC | 60 x 60 x 25 | 15.8 | 85 | 4.95 |
| 2150766 | 12 VDC | 60 x 60 x 25 | 23.2 | 85 | 7.95 |
| 688597 | 12 VDC | 80 x 80 x 25 | 27.7 | 85 | 5.95 |
| 212628 | 24 VDC | 60 x 60 x 25 | 26.9 | 86 | 8.95 |
| 2155065 | 24 VDC | 92 x 92 x 38 | 51.2 | 86 | 8.95 |
| 213867 | 115 VAC | 60 x 60 x 30 | 10.2 | 87 | 17.95 |
| 106586 | 115 VAC | 120 x 120 x 38 | 105 | 87 | 12.95 |
| 102884 | 115 VAC | 120 x 120 x 38 | 117 | 87 | 14.95 |
| 2126096 | 120 VAC | 92 x 92 x 25 | 22 | 87 | 9.95 |
| 2125931 | 120 VAC | 120 x 120 x 38 | 112 | 87 | 13.95 |

D-Sub Contacts, Hoods & Hardware

AMP D-Sub Solder & Crimp Contacts

*Web Code: JDC



Male Crimp Contact – Fig. 1

| Part No. | Mfr. | Product No. | AWG | 1 | 10 | 100 |
|----------|------|-------------|-------|-------|-------|-------|
| 234982 | AMP | 66570-3 | 28-24 | \$.39 | \$.35 | \$.29 |

Female Crimp Contacts – Fig. 2

Order in multiples of 10

| Part No. | Mfr. | Product No. | AWG | 10 | 100 | 1000 |
|----------|----------|-------------|-------|-------|-------|-------|
| 43369 | ValuePro | 500-155 | 28-24 | \$.17 | \$.15 | \$.12 |
| 185412 | ValuePro | 1006-PS | 28-24 | \$.05 | \$.04 | \$.03 |
| 223298 | AMP | 66504-9 | 24-20 | \$.22 | \$.19 | \$.15 |
| 223255 | AMP | 1-66504-0 | 24-20 | \$.19 | \$.15 | \$.12 |

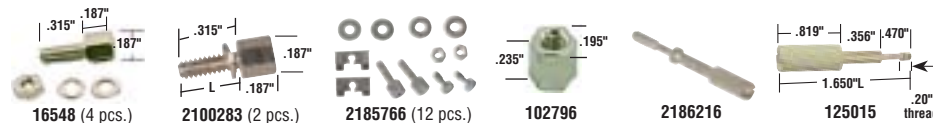
*Terminal Blocks — Enter Web Code XBD

*Junction Shells — Enter Web Code DAB

AMP Hardware for D-Sub Connector Hoods

Amphenol®

*Web Code: PAM



4-40 Hex Jack Screw Sets

16548: 4-40 Hex (.187"W x .187"H x .315"L thread) jack screw, nut & washer set – plating B
2100283: 4-40 Hex (.187"W x .187"H x .315"L thread) jack screw with lock washer – plating D
444912: 4-40 Hex (.187"W x .187"H x .630"L thread) jack screw, nut & washers set – plating C
2185766: 4-40 Hex (.187"W x .187"H x .356"L thread) jack screw, nut & washers screws & clip – plating A

* Order in multiples of 10

| Part No. | Mfr. | Prod. No. | Plating* | 1 | 10 | 100 |
|----------|----------|-----------|----------|-------|-------|-------|
| 16548 | ValuePro | 14-522 | B | \$.69 | \$.59 | \$.55 |
| 2100283 | ValuePro | JS4403LW | D | \$.19 | \$.15 | \$.12 |
| 444912 | Cinch | D20418-39 | C | 1.95 | 1.75 | 1.49 |
| 2185766 | Amphenol | 17-768 | A | .75 | .65 | .55 |

4-40 Slotted D-Sub Plastic Thumbscrew

| Part No. | Mfr. | Prod. No. | Length | 1 | 10 | 100 |
|----------|----------|-----------|--------|-------|-------|-------|
| 125015 | ValuePro | 1.65" | A | \$.25 | \$.15 | \$.12 |

Male Crimp Contacts– Fig. 3

* Order in multiples of 10

| Part No. | Mfr. | Product No. | AWG | 1 | 10 | 100 |
|----------|----------|-------------|-------|-------|-------|-------|
| 185421 | ValuePro | 1006-PP | 28-24 | \$.07 | \$.05 | \$.04 |
| 43377 | ValuePro | 500-055 | 28-24 | \$.17 | \$.15 | \$.12 |
| 223108 | AMP | 66507-9 | 28-24 | \$.29 | \$.25 | \$.19 |
| 223191 | AMP | 66506-9 | 24-20 | \$.19 | \$.15 | \$.12 |

Female Solder Contact (M39029/63-368) – Fig. 4

* Machined

| Part No. | Mfr. | Product No. | 1 | 10 | 100 |
|----------|------|-------------|-------|-------|-------|
| 449351 | AMP | 205090-1 | \$.55 | \$.49 | \$.45 |

Male Solder Contact (M39029/64-369) – Fig. 5

* Machined

| Part No. | Mfr. | Product No. | 1 | 10 | 100 |
|----------|------|-------------|-------|-------|-------|
| 449342 | AMP | 205089-1 | \$.49 | \$.45 | \$.39 |

D-Sub Connector Hoods

*Web Code: DAB



- Use with D-sub solder cup and housing style connectors (hardware included)
- D Series:** Plastic hood with strain relief (gray)
- MD Series:** Metal coated plastic hood w/ strain relief
- MH Series:** Die-cast metal hood with strain relief

| Part No. | Mfr. | Product No. | Pins | 1 | 10 | 100 |
|----------|----------|-------------|------|-------|-------|-------|
| 15722 | ValuePro | DB9H | 9 | \$.75 | \$.59 | \$.55 |
| 25620 | Steren | MD9H | 9 | .85 | .79 | .69 |
| 2185740 | Amphenol | 17-1587-3 | 9 | 1.49 | 1.25 | 1.09 |
| 147741 | ValuePro | MHDB9* | 9 | 1.85 | 1.59 | 1.39 |
| 15019 | ValuePro | DA15H | 15 | .95 | .79 | .69 |
| 25567 | ValuePro | MDA15H | 15 | .99 | .85 | .65 |
| 15086 | ValuePro | DB25H | 25 | .75 | .65 | .55 |
| 25604 | ValuePro | MD25H | 25 | 1.05 | .89 | .75 |
| 15107 | ValuePro | MHDB25 | 25 | 2.25 | 1.95 | 1.75 |

* No strain relief

Slim-Line D-Sub Gender Changers/Couplers

For Confined Applications!

*Web Code: YAB

- Captive locking screw (male)
- Captive locking nut (female)
- Tin plated shells
- Grounding tangs (male)
- Width: 0.69"



| Part No. | Description | 1 | 10 | 100 |
|----------|----------------------------|--------|--------|--------|
| 18498 | 9-pin male to male | \$2.09 | \$1.89 | \$1.65 |
| 18489 | 9-pin female to female | 1.95 | 1.75 | 1.49 |
| 119320 | 15-pin female to female HD | 9.95 | 8.95 | 7.95 |
| 18447 | 25-pin male to male | 1.95 | 1.75 | 1.49 |
| 18420 | 25-pin female to female | 2.65 | 2.39 | 2.09 |

D-Sub Crimping Tool

- Heavy-duty metal tool with cutter and insulated handles
- For computer pins & sockets, D-sub 26-28 AWG wire; butt-insulated connectors, 22-26 AWG wire; telephone spade lugs, 22-26 AWG wire and non-insulated connectors, 20-22 AWG & 14-18 AWG
- Coiled spring return • Size: 7.3"L x 1.5"W



*Web Code: GBU

| Part No. | Mfr. | Part No. | 1 | 5 | 25 |
|----------|--------|----------|--------|--------|--------|
| 99443 | HT202A | | \$9.95 | \$8.95 | \$7.95 |

More Tools on pages 119-122

1/4 POUND MAGNET WIRE WITH POLYURETHANE INSULATION

JAMECO ValuePro

| Part No. | Gauge (AWG) | Nom. O.D. | Length (ft.) | Pricing | |
|----------|-------------|-----------|--------------|---------|--------|
| | | | | 1 | 5 |
| 2098371 | 16 | .0524" | 32 | \$6.95 | \$6.25 |
| 2098380 | 18 | .0418" | 51 | 7.25 | 6.49 |
| 2098398 | 20 | .0334" | 81 | 7.49 | 6.75 |
| 2098401 | 22 | .0265" | 129 | 7.95 | 6.95 |
| 2098419 | 24 | .0213" | 205 | 8.49 | 7.49 |
| 2119347 | 26 | .0169" | 328 | 8.95 | 7.95 |
| 2119355 | 28 | .0136" | 520 | 9.49 | 8.49 |
| 2119363 | 30 | .0109" | 825 | 9.95 | 8.95 |



2098371

BEST SELLING SOLDERING STATIONS

146595

| Part No. | Mfr. | Description | Page | Price |
|----------|----------|----------------------|------|---------|
| 146595 | Weller | 5 to 40 Watt, Analog | 125 | \$52.95 |
| 217461 | Weller | 50 Watt, Analog | 125 | 129.95 |
| 233533 | Weller | 50 Watt, Digital | 125 | 189.95 |
| 2174611 | Hakko | 70 Watt, Digital | 126 | 139.95 |
| 2099198 | Xytronic | 100 Watt, Digital | 126 | 399.95 |
| 2181503 | Xytronic | 120 Watt, Digital | 126 | 139.95 |

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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Power Connectors, Receptacles, Housings & Contacts

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

molex Power Connectors

- 5.03mm (.198") pitch
- Passive friction lock
- Housing: nylon; UL94V-2
- Temperature range: -40°C to +105°C
- Contact retention to housing: 20 lbs. min.



.062" (1.57mm) Plugs (Contacts to the right)

* Current: 5.0A

* Order in multiples of 10

| Part No. | Mfr. Part No. | Circuits | Type | Pattern | Mating Conn. | 1 | 10 | 100 |
|----------|---------------|----------|--------------|---------|--------------|-------|-------|-------|
| 224485 | 03-06-2023 | 2 | Free hanging | In-line | 224400 | ..... | * .22 | \$.19 |
| 224506 | 03-06-2042 | 4 | Free hanging | In-line | 224426 | ..... | .35 | .29 |
| 224514 | 03-06-2044 | 4 | Free hanging | Matrix | 224434 | ..... | .45 | .39 |

* Web Code: HBL

.062" (1.57mm) Receptacles (Contacts to the right)

* Current: 5.0A

* Order in multiples of 10

| Part No. | Mfr. Part No. | Circuits | Type | Pattern | Mating Conn. | 1 | 10 | 100 |
|----------|---------------|----------|--------------|---------|--------------|-------|-------|-------|
| 224400 | 03-06-1023 | 2 | Free hanging | In-line | 224485 | ..... | * .22 | \$.19 |
| 224426 | 03-06-1042 | 4 | Free hanging | In-line | 224506 | ..... | .45 | .39 |
| 224434 | 03-06-1044 | 4 | Free hanging | Matrix | 224514 | ..... | .45 | .39 |

* Web Code: HBL

.093" (2.36mm) Plugs (Contacts to the right)

* Current: 12A/circuit

* Order in multiples of 10

| Part No. | Mfr. Part No. | Circuits | Type | Pattern | Mating Conn. | 1 | 10 | 100 |
|----------|---------------|----------|--------------|---------|--------------|-------|-------|-------|
| 224071 | 03-09-2022 | 2 | Free hanging | In-line | 224143 | ..... | \$.29 | \$.25 |
| 224080 | 03-09-2032 | 3 | Free hanging | In-line | 224151 | ..... | .29 | .25 |
| 224098 | 03-09-2042 | 4 | Free hanging | In-line | 224160 | ..... | .39 | .35 |

* Web Code: CBL

.093" (2.36mm) Receptacles (Contacts to the right)

* Current: 12A/circuit

* Order in multiples of 10

| Part No. | Mfr. Part No. | Circuits | Type | Pattern | Mating Conn. | 1 | 10 | 100 |
|----------|---------------|----------|--------------|---------|--------------|-------|-------|-------|
| 224143 | 03-09-1022 | 2 | Free hanging | In-line | 224071 | ..... | \$.29 | \$.25 |
| 224151 | 03-09-1032 | 3 | Free hanging | In-line | 224080 | ..... | .35 | .29 |
| 224160 | 03-09-1042 | 4 | Free hanging | In-line | 224098 | ..... | .55 | .49 |
| 230156 | 03-09-1041 | 4 | Panel mount | In-line | 224098 | ..... | * .19 | .15 |

* Web Code: CBL

* Power Connectors — Enter Web Code BAM

* Rectangular Connectors — Enter Web Code RCC

* Networking Connectors — Enter Web Code NCS

molex Connector for Battery Packs

One Pair of Male/Female Two Positions

- Popular with radio and control hobbyists
- Mini-Fit Jr.™ receptacle and plug housing pair
- 12" wire leads black and red
- 18 AWG

| Part No. | Mfr. Part No. | 1 | 10 | 100 |
|----------|---------------|-------|--------|--------|
| 2232841 | CBL-M/F-2COND | ..... | \$2.95 | \$2.59 |



AMP D-Sub Pin Insertion/Extraction Tools

19094/527582/223335:

- Plastic body;
- metal tips

* Web Code: LSS

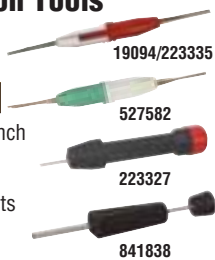
223327:

- Handle with .050" hex wrench and interchangeable tips

841838:

- Works with general contacts of CPC, multimate and MATE-N-LOCK II contacts

| Part No. | Mfr. | Product No. | Contact Size | 1 | 10 |
|----------|----------|-------------|--------------|--------|--------|
| 19094 | ValuePro | 500-200 | ..... | \$4.49 | \$3.95 |
| 527582 | AMP | 91067-1 | 22 | 15.95 | 14.49 |
| 223335 | AMP | 91067-2 | 20DM/DF | 14.95 | 13.49 |
| 223327 | AMP | 91285-1 | HD-20 | 25.95 | 23.49 |
| 841838 | AMP | 305183 | 0.715"Dia. | 18.95 | 16.95 |



molex .093" Power Connector Kits

Kit contains mating sets of housings and pins.

- Voltage: 250VAC
- Temp. range: -40°C to +105°C

142181: • 3 ea. 2-pin plugs & receptacles, 8 ea. female & male contacts

142201: • 2 ea. 4-pin plugs & receptacles, 10 ea. female & male contacts

- Current: 9A

* Web Code: CAV



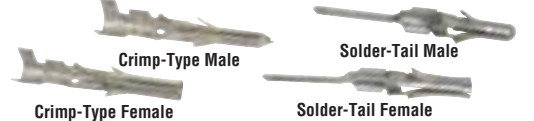
Includes: Male and female tin-plated standard brass .010" pins; 18-22 AWG crimp size wire

| Part No. | Mfr. Part No. | Description | 1 | 10 | 100 |
|----------|---------------|-------------|-------|--------|--------|
| 142181 | 1545 | 2-pin kit | ..... | \$6.25 | \$5.75 |
| 142201 | 1490 | 4-pin kit | ..... | 6.59 | 5.95 |

molex Power Connector Contacts

* Web Code: JBL

- Contact: brass or phosphor bronze
- Temp. range: -40°C to +105°C
- Tin plating



.062" (1.57mm) Bulk Contacts for Plugs & Receptacles

Order in multiples of 10

| Part No. | Mfr. | Mfr. Part No. | Description | Gender | AWG | 10 | 100 | 1000 |
|----------|-------|---------------|-------------|--------|-------|-------|-------|-------|
| 224581 | Molex | 02-06-2132 | Crimp type | M | 24-30 | ..... | \$.09 | \$.07 |
| 224573 | Molex | 02-06-1132 | Crimp type | F | 24-30 | ..... | .09 | .07 |
| 224565 | Molex | 02-06-2103 | Crimp type | M | 18-24 | ..... | .12 | .09 |
| 224557 | Molex | 02-06-1103 | Crimp type | F | 18-24 | ..... | .15 | .12 |
| 227387 | Molex | 02-06-7103 | Solder tail | F | — | ..... | .17 | .15 |

.093" (2.36mm) Bulk Contacts for Plugs & Receptacles

Order in multiples of 10

| Part No. | Mfr. | Mfr. Part No. | Description | Gender | AWG | 10 | 100 | 500 |
|----------|-------|---------------|-------------|--------|-------|-------|-------|-------|
| 224207 | Molex | 02-09-2118 | Crimp type | M | 18-22 | ..... | \$.12 | \$.09 |
| 224215 | Molex | 02-09-1119 | Crimp type | F | 18-22 | ..... | .17 | .15 |
| 224223 | Molex | 02-09-2103 | Crimp type | M | 14-20 | ..... | .15 | .12 |
| 224231 | Molex | 02-09-1104 | Crimp type | F | 14-20 | ..... | .15 | .12 |
| 224240 | Molex | 02-09-2133 | Solder tail | M | — | ..... | .15 | .12 |

.165" (4.19mm) Mini-Fit Jr.™ Receptacles & Housings



Double Row Female Receptacles (Fig. 1)

| Part No. | Mfr. Part No. | Flammability | Position | 1 | 10 | 100 | 500 | 1000 |
|----------|---------------|--------------|----------|-------|-------|-------|-------|-------|
| 303562 | 39-01-2020 | UL94V-2 | 2 | ..... | \$.25 | \$.19 | \$.16 | \$.13 |
| 303571 | 39-01-2040 | UL94V-2 | 4 | ..... | .25 | .19 | .17 | .16 |
| 880790 | 39-01-2065 | UL94V-0 | 6 | ..... | .59 | .49 | .43 | .39 |
| 880837 | 39-01-2085 | UL94V-0 | 8 | ..... | .55 | .45 | .39 | .35 |
| 880870 | 39-01-2125 | UL94V-0 | 12 | ..... | .59 | .49 | .45 | .39 |

Double Row Male Plug Housings — Free Hanging (Fig. 2)

| Part No. | Mfr. Part No. | Flammability | Position | 1 | 10 | 100 | 500 | 1000 |
|----------|---------------|--------------|----------|-------|-------|-------|-------|-------|
| 881004 | 39-01-3023 | UL94V-2 | 2 | ..... | \$.25 | \$.19 | \$.17 | \$.15 |
| 881135 | 39-01-3049 | UL94V-0 | 4 | ..... | .45 | .39 | .35 | .29 |
| 881178 | 39-01-3069 | UL94V-0 | 6 | ..... | .59 | .45 | .39 | .35 |
| 798307 | 39-01-3089 | UL94V-0 | 8 | ..... | .65 | .55 | .49 | .39 |
| 2232884 | 39-01-3129 | UL94V-0 | 12 | ..... | .59 | .49 | .45 | .39 |

Double Row Male Plug Housings w/ Mounting Ears — Panel Mount (Fig. 3)

| Part No. | Mfr. Part No. | Flammability | Position | 1 | 10 | 100 | 500 | 1000 |
|----------|---------------|--------------|----------|-------|-------|-------|-------|-------|
| 303685 | 39-01-2021 | UL94V-2 | 2 | ..... | \$.29 | \$.22 | \$.22 | \$.18 |
| 303693 | 39-01-2041 | UL94V-2 | 4 | ..... | .35 | .25 | .25 | .19 |
| 880811 | 39-01-2066 | UL94V-0 | 6 | ..... | .65 | .49 | .49 | .39 |
| 2232892 | 39-01-2086 | UL94V-0 | 8 | ..... | .69 | .55 | .55 | .45 |
| 798227 | 39-01-2126 | UL94V-0 | 12 | ..... | .65 | .49 | .49 | .41 |

molex .165" (4.19mm) Mini-Fit Jr.™ Type Terminals

A: Tin over nickel over brass

B: 15μ" gold over nickel over brass

* Web Code: CBX



* Order in multiples of 10

| Part No. | *Mfr. | Product No. | Type | AWG | 1 | 10 | 100 |
|----------|-------|-------------|------|-------|-------|-------|-------|
| 401824 | JVP | 4257T2-LP | 1A | 18-24 | ..... | \$.25 | \$.09 |
| 401701 | JVP | 4256T2-LP | 2A | 18-24 | ..... | .25 | .09 |
| 2232913 | MOL | 39-00-0075 | 1B | 18-24 | ..... | .35 | .29 |
| 401736 | ADM | 4256T2-15GC | 2B | 18-24 | ..... | .35 | .29 |
| 304725 | MOL | 39-00-0041 | 1A | 18-24 | ..... | * .12 | .09 |
| 304733 | MOL | 39-00-0039 | 2A | 18-24 | ..... | * .09 | .07 |
| 880538 | MOL | 39-00-0048 | 1A | 22-28 | ..... | * .15 | .09 |
| 304872 | MOL | 39-00-0047 | 2A | 22-28 | ..... | * .15 | .09 |

*ADM = Adam Tech; JVP = Jameco ValuePro; MOL = Molex

Power Connectors & Crimp Terminals



.165" (4.19mm) Pitch ATX Power Connector & Pin

For Motherboards and Power Supplies

- Current rating: 7A AC/DC • Temperature range: -25°C to 85°C
- 147379:** Material: nylon 66, UL-94VO
- Material of post: tin-plated brass • Diameter of post: 0.045"
- 147395:** Material: tin-plated brass
- Use crimping tool P/N 338678, pg 55

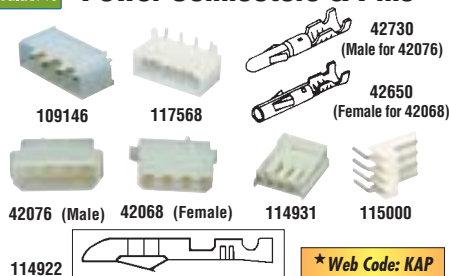
* Web Code: FEM

* Order in multiples of 10

| Part No. | Description | L | W | H | Dia. | 1 | 10 | 100 |
|----------|----------------------------|-------|------|------|--------|--------|--------|--------|
| 147379 | 20-pin male connector | 1.7" | 0.4" | 0.6" | — | \$.29 | \$.19 | \$.15 |
| 147395 | Power terminal pin, female | 0.59" | — | — | 0.068" | * | .12 | .09 |



Power Connectors & Pins



* Web Code: KAP

Connector & Housing Specifications:

- Voltage rating: 250VAC (Mate-N-Lock 600VAC)
- Operating temperature: -55°C to +105°C

Crimp Pin Specifications:

- Material: tin plated brass • Current rating: 1.5A
- Wire size range: 18-24 AWG
- Use crimp tool P/N 99443, pg 120

.100" – For 3.5" Disk Drives & Power Supplies

- Volt. rating: 250V AC/DC • Wire gauge: 22-26 AWG
- Insulation resistance: 1000MΩ min.

| Part No. | Description | 1 | 10 | 100 |
|----------|-----------------------------------|--------|--------|--------|
| 114931 | 4-pin female housing | \$.39 | \$.35 | \$.29 |
| 114922 | Female crimp pin for 114931 | .25 | .19 | .15 |
| 115000 | 4-pin male rt. angle PCB mounting | .55 | .49 | .45 |

.200" – For 5.25" Disk Drives & Power Supplies

42076 & 42068 Connector Housings:

- External key bar indicates pin 1
- Extraction tools, P/Ns 131887 & 131879 (see right)
- Keyed mating connectors

* Order in multiples of 10

| Part No. | Description | 1 | 10 | 100 |
|----------|-----------------------------------|--------|--------|--------|
| 109146 | 4-pin male vert. PCB mntg | \$.65 | \$.55 | \$.49 |
| 117568 | 4-pin M PCB mntg, horiz. edge mnt | 1.05 | .95 | .85 |
| 42076 | 4-pin male housing | .35 | .29 | .25 |
| 42068 | 4-pin female housing | * | .19 | .15 |
| 42730 | Male crimp pin for 42076 | * | .22 | .19 |
| 42650 | Female crimp pin for 42068 | * | .15 | .12 |

Male/Female Connector Housing

- Wire to wire connection
- Op. temp.: 40 to +125
- RoHS compliant
- Nylon & polyamide housing material
- Pitch: 4mm, 5.25mm, 6.5mm, 7.7mm

* Web Code: QZX

NEW MARKED IN PINK

| Part No. | Mfr. Part No. | M/F | No. of Pos. | 1 | 10 | 25 |
|----------|-----------------------|--------|-------------|--------|--------|--------|
| 2232420 | 54550403 ¹ | Male | 4 ... | \$1.75 | \$1.49 | \$1.25 |
| 2232454 | 54550416 ² | Male | 4 ... | 1.95 | 1.75 | 1.49 |
| 2232446 | 54550415 ² | Female | 4 ... | 1.95 | 1.75 | 1.49 |
| 2232462 | 12110295 ³ | Female | 6 ... | 1.95 | 1.75 | 1.49 |
| 2232500 | 15326910 | Female | 12 ... | 1.95 | 1.75 | 1.49 |
| 2232542 | 04687929 [#] | Female | 14 ... | 1.75 | 1.49 | 1.25 |
| 2232551 | 04687935 [#] | Male | 14 ... | 1.95 | 1.75 | 1.49 |

1,2,3 Use w/ corresponding terminals on the right # Works together



Connector Extraction Tools



| Part No. | Mfr. Part No. | AWG | Conn. Size | 1 | 5 |
|----------|---------------|-------|------------|---------|---------|
| 142156 | W-HT-2285 | 18-30 | .062" | \$15.95 | \$14.49 |
| 227467 | W-HT-2023 | 18-30 | .062" | 13.95 | 12.49 |
| 142236 | W-HT-2038 | 14-30 | .093" | 15.95 | 14.49 |
| 236128 | W-HT-1884 | 22-30 | .100" | 11.95 | 10.95 |



Extraction Tools for Crimp Terminals

- Quickly and easily extract .093" locking pins from interlocking connectors
- Length: 5"



| Part No. | Description | 1 | 5 |
|----------|---------------------------|---------|---------|
| 131887 | Male tool for 42730, left | \$11.95 | \$10.95 |
| 131879 | Male tool for 42650, left | 9.95 | 8.95 |



.156" (3.96mm) JST Type Crimp Terminal and Tool

Crimp Terminal

- 18-22 AWG
- Female • Tin-plated brass

* Order in multiples of 10

| Part No. | Mfr. | Cross Ref. No. | 10 | 100 |
|----------|----------|----------------|--------|--------|
| 2124630 | ValuePro | 96T | \$.04 | \$.03 |

JST Crimp Tool

| Part No. | Mfr. | Mfr. Part No. | 1 | 5 |
|----------|-----------|---------------|---------|---------|
| 227491 | GC/Waldom | W-HT-1921 | \$15.95 | \$14.49 |

* Extraction Tools — Enter Web Code BAV



Male/Female Terminal Pins, Sockets and Accessories

- Unsealed/sealed terminals (crimp)
- Seals • Secondary locks
- 1.5mm & 2.8mm blades • RoHS compliant

| Part No. | Mfr. Part No. | Description | * Web Code: QZX | 1 | 10 | 100 |
|----------|------------------------|--|-----------------------|--------|--------|--------|
| 2232631 | 54001819 ¹ | Terminal copper alloy, gold plating, 18-20 AWG | NEW MARKED IN PINK | \$.59 | \$.49 | \$.39 |
| 2232649 | 54001801 ¹ | Terminal copper alloy, tin plating, 18-20 AWG | | .35 | .29 | .19 |
| 2232657 | 54001800 ¹ | Terminal socket unsealed, copper alloy/tin plating | | .29 | .25 | .19 |
| 2232622 | 54001831 ² | Terminal socket unsealed, gold plating | | .29 | .25 | .19 |
| 2232614 | 54001845 ² | Terminal pin blade unsealed, gold plating | | .59 | .49 | .39 |
| 2232606 | 12110295 ³ | Terminal socket sealed, tin plating | | .25 | .15 | .12 |
| 2232471 | 12129381 [†] | Metri-pack seal | | .69 | .59 | .49 |
| 2232489 | 12129382 [†] | O-ring blue seal | | .59 | .49 | .39 |
| 2232518 | 12052834 [†] | Lock CPA axial green | | .25 | .12 | .09 |
| 2232497 | 12129384 [†] | Blue connector seal | | .49 | .39 | .29 |
| 2232593 | 12084913 ^{††} | Terminal phosphor bronze, gold plating | | .49 | .39 | .29 |
| 2232526 | 12110299 ^{††} | Lock CPA red | | .29 | .25 | .19 |
| 2232534 | 12129557 ^{††} | Blue cable cavity plug | | .25 | .15 | .12 |

1,2,3 Use with corresponding housings on the left † Works together †† Works together



.100" & 2mm Shorting Blocks



- Mates to .025" square posts on .100" centers
- Shorts headers/jumper blocks or color code strip line plugs
- Mate with male header (P/N 109576, pg 54)
- Pin material: phosphor bronze

* Web Code: MAC

Open: Open on top to allow for a test point

Closed: Closed top

119264: 2mm (for disk drives)

Order in multiples of 10

| Part No. | Description | 10 | 100 | 500 |
|----------|-------------------------------|--------|--------|--------|
| 22024 | Top open, black (.100") | \$.15 | \$.12 | \$.09 |
| 119264 | Top open, black (2mm) | .12 | .09 | .07 |
| 112425 | Top open, blue (.100") | .12 | .09 | .07 |
| 112417 | Top open, red (.100") | .17 | .15 | .12 |
| 19141 | Top closed, black (.100") | .15 | .12 | .09 |
| 112442 | Top closed, blue (.100") | .17 | .15 | .12 |
| 112432 | Top closed, red (.100") | .15 | .12 | .09 |
| 152671 | Top closed, black tab (.100") | .17 | .15 | .12 |



Soldering Aid Tool Kit

Excellent for soldering works to hold, remove, clean or replace components

- 6-pieces, each tool is double ended
- Knife, brush, scraper, hook, fork & spike



| Part No. | Cross Ref. No. | 1 | 5 |
|----------|----------------|--------|--------|
| 2096000 | GSR-107 | \$6.95 | \$6.25 |

Deluxe Electronic Components Bundle

109 commonly used electronic components including voltage regulators, relays, diodes, switches, pots, logic chips, sockets, inverter, counters, timers, headers, 3-digit display, numeric keypad, DC power jacks, binding posts, various tools and more in a customizable



Top



Bottom

| Part No. | Cross Ref. No. | Price |
|----------|----------------|---------|
| 2129123 | DELUXE2 | \$99.95 |

* IDC Connectors — Enter Web Code DCD

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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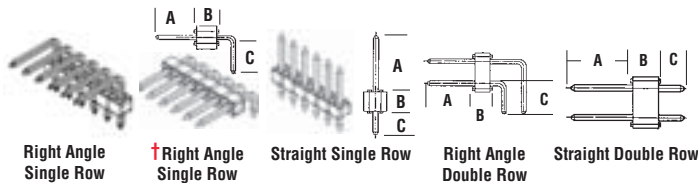
Headers & Housings

3 LEVELS OF SAVINGS
NAME BRANDS HOUSE BRANDS SPECIAL BUY



.100" (2.54mm) Straight and Right Angle Male Headers

NEW
MARKED IN PINK



.100" (2.54mm) Right Angle Single Row Male Headers

*Web Code: DAH

| Part No. | Mfr. | Product No. | Pins | Size (A"xB"xC") | Plating | 1 | 10 | 100 |
|----------|----------|------------------|------|-----------------|---------|-------|-------|-------|
| 2076842 | ValuePro | RMH5 | 5 | .27 x .10 x .12 | Gold | \$.29 | \$.25 | \$.19 |
| 2076851 | ValuePro | RMH6 | 6 | .27 x .10 x .12 | Gold | \$.39 | \$.35 | \$.29 |
| 153728 | ValuePro | RMH8 | 8 | .27 x .10 x .12 | Gold | \$.45 | \$.39 | \$.35 |
| 2076869 | ValuePro | RMH26 | 26 | .27 x .10 x .12 | Gold | \$.75 | \$.65 | \$.55 |
| 103271 | ValuePro | RMH36 (LP)† | 36 | .23 x .10 x .12 | Gold | 1.09 | .89 | .75 |
| 1946041 | ValuePro | RMH36AR (type A) | 36 | .27 x .10 x .22 | Gold | 1.09 | .89 | .75 |

† Low profile

.100" (2.54mm) Straight Single Row Male Headers

*Web Code: TAM

| Part No. | Mfr. | Product No. | Pins | Size (A"xB"xC") | Plating | 1 | 10 | 100 |
|----------|-----------|-----------------|------|-----------------|----------|-------|-------|-------|
| 2076797 | ValuePro | SMH01 | 1 | .23 x .10 x .12 | Gold | \$.25 | \$.07 | \$.06 |
| 2144884 | ValuePro | SMH02 | 2 | .23 x .10 x .12 | Tin | \$.29 | \$.25 | \$.19 |
| 108338 | ValuePro | SMH02 | 2 | .23 x .10 x .12 | Gold | \$.25 | \$.19 | \$.15 |
| 421489 | AMP | 103185-3* | 3 | .23 x .09 x .12 | Gold/Tin | \$.59 | \$.55 | \$.45 |
| 109576 | ValuePro | SMH03 | 3 | .23 x .10 x .12 | Gold | \$.39 | \$.35 | \$.29 |
| 117560 | ValuePro | SMH04 | 4 | .23 x .10 x .12 | Gold | \$.39 | \$.35 | \$.29 |
| 2120276 | OST | PHI-787/120-041 | 4 | .78 x .10 x .12 | Gold | \$.29 | \$.25 | \$.19 |
| 2076789 | ValuePro | SMH05 | 5 | .23 x .10 x .12 | Gold | \$.25 | \$.19 | \$.15 |
| 2229327 | Arndt | 225-0004* | 6 | .23 x .10 x .12 | Gold/Tin | \$.25 | \$.22 | \$.17 |
| 153700 | ValuePro | SMH06 | 6 | .23 x .10 x .12 | Gold | \$.29 | \$.25 | \$.19 |
| 153702 | ValuePro | SMH08 | 8 | .23 x .10 x .12 | Gold | \$.35 | \$.29 | \$.25 |
| 103393 | ValuePro | SMH10 | 10 | .23 x .10 x .12 | Gold | \$.49 | \$.45 | \$.35 |
| 103377 | ValuePro | SMH17 | 17 | .23 x .10 x .12 | Gold | \$.39 | \$.35 | \$.29 |
| 2228826 | ValuePro | SMH18 | 18 | .23 x .10 x .12 | Gold | \$.39 | \$.35 | \$.29 |
| 2229036 | ValuePro | 2012-254-20 | 20 | .18 x .09 x .18 | Gold | \$.39 | \$.35 | \$.29 |
| 103369 | ValuePro | SMH20 | 20 | .23 x .10 x .12 | Gold | \$.45 | \$.39 | \$.35 |
| 202825 | ValuePro | SMH22 | 22 | .23 x .10 x .12 | Gold | \$.39 | \$.35 | \$.29 |
| 103351 | ValuePro | SMH25 | 25 | .23 x .10 x .12 | Gold | \$.39 | \$.35 | \$.29 |
| 103342 | ValuePro | SMH30 | 30 | .23 x .10 x .12 | Gold | \$.49 | \$.45 | \$.35 |
| 2207849 | ValuePro | SMH32 | 32 | .23 x .10 x .12 | Gold | \$.45 | \$.39 | \$.35 |
| 2076826 | ValuePro | SMH34 | 34 | .23 x .10 x .12 | Gold | \$.49 | \$.45 | \$.39 |
| 68339 | ValuePro | SMH36 | 36 | .23 x .10 x .12 | Gold | \$.55 | \$.45 | \$.35 |
| 2168211 | Adam Tech | PH1-40-UA | 40 | .23 x .10 x .12 | Gold/Tin | \$.59 | \$.55 | \$.45 |
| 2229044 | ValuePro | 2012-254-40-40 | 40 | .18 x .09 x .18 | Gold | \$.69 | \$.59 | \$.55 |
| 160882 | ValuePro | SMH40 | 40 | .23 x .10 x .12 | Gold | \$.79 | \$.69 | \$.65 |

*Dimension "A" has gold plating over nickel; dimension "C" has tin plating

.079" (2mm)/.100" (2.54mm) Male Headers Grab Bag

*Web Code: GBS



| Part No. | Cross Ref. | Description | Wt. (lbs.) | 1 | 10 |
|----------|------------|--|------------|--------|--------|
| 2095138 | GB204 | 100 assorted .100" male headers (breakway) Straight, right angle, single and double row | 0.3 | \$9.95 | \$8.95 |

.100" (2.54mm) Right Angle Double Row Male Headers

• Example: 10 pins are 2 rows of 5 pins

*Web Code: DAP

| Part No. | Mfr. | Cross Ref. No. | Pins | Size (A"xB"xC") | Plating | 1 | 10 | 100 |
|----------|----------|----------------|------|-----------------|---------|-------|-------|-------|
| 203932 | ValuePro | 923810DR | 10 | .23 x .10 x .12 | Gold | \$.39 | \$.29 | \$.25 |
| 203959 | ValuePro | 923814DR | 14 | .23 x .10 x .12 | Gold | \$.49 | \$.35 | \$.29 |
| 203967 | ValuePro | 923816DR | 16 | .23 x .10 x .12 | Gold | \$.55 | \$.39 | \$.35 |
| 53576 | ValuePro | 923820DR | 20 | .23 x .10 x .12 | Gold | \$.75 | \$.65 | \$.55 |
| 53583 | ValuePro | 9238260DR | 26 | .23 x .10 x .12 | Gold | \$.85 | \$.75 | \$.69 |
| 53605 | ValuePro | 923840DR | 40 | .23 x .10 x .12 | Gold | \$.99 | \$.85 | \$.69 |
| 53612 | ValuePro | 923850DR | 50 | .23 x .10 x .12 | Gold | 1.19 | .99 | .85 |
| 139564 | ValuePro | 923880DR | 80 | .23 x .10 x .12 | Gold | 1.39 | 1.19 | .99 |

.100" (2.54mm) Straight Double Row Male Headers

*Web Code: QCM

• Example: 10 pins are 2 rows of 5 pins

| Part No. | Mfr. | Product No. | Pins | Size (A"xB"xC") | Plating | 1 | 10 | 100 |
|----------|-----------|------------------|------|-----------------|----------|-------|-------|-------|
| 115027 | ValuePro | 923804DS | 4 | .23 x .10 x .12 | Gold | \$.45 | \$.39 | \$.25 |
| 115035 | ValuePro | 923806DS | 6 | .23 x .10 x .12 | Gold | \$.49 | \$.45 | \$.35 |
| 15747 | ValuePro | DMH06-30 | 6 | .30 x .10 x .12 | Gold | \$.29 | \$.25 | \$.19 |
| 2135312 | ValuePro | FCN-724P008-AU/W | 8 | .23 x .10 x .12 | Gold/Tin | \$.29 | \$.25 | \$.19 |
| 109517 | ValuePro | 7000-2x4SG | 8 | .23 x .10 x .12 | Gold | \$.59 | \$.45 | \$.35 |
| 67821 | ValuePro | 923810DS | 10 | .23 x .10 x .12 | Gold/Tin | \$.69 | \$.59 | \$.49 |
| 203810 | ValuePro | 923812DS | 12 | .23 x .10 x .12 | Gold | \$.29 | \$.25 | \$.19 |
| 118456 | ValuePro | 923814DS | 14 | .23 x .10 x .12 | Gold | \$.49 | \$.45 | \$.39 |
| 109568 | ValuePro | 923816DS | 16 | .23 x .10 x .12 | Gold | \$.69 | \$.65 | \$.59 |
| 53480 | ValuePro | 923820DS | 20 | .23 x .10 x .12 | Gold | \$.69 | \$.65 | \$.59 |
| 203844 | ValuePro | 923824DS | 24 | .23 x .10 x .12 | Gold | \$.59 | \$.49 | \$.39 |
| 53495 | ValuePro | 923826DS | 26 | .23 x .10 x .12 | Gold | \$.69 | \$.65 | \$.59 |
| 203861 | ValuePro | 923832DS | 32 | .23 x .10 x .12 | Gold | \$.69 | \$.65 | \$.55 |
| 53517 | ValuePro | 923834DS | 34 | .23 x .10 x .12 | Gold | \$.69 | \$.65 | \$.55 |
| 53532 | ValuePro | 923840DS | 40 | .23 x .10 x .12 | Gold | \$.85 | \$.75 | \$.65 |
| 53560 | ValuePro | 923850DS | 50 | .23 x .10 x .12 | Gold | \$.99 | \$.85 | \$.75 |
| 68574 | ValuePro | 923860DS | 60 | .23 x .10 x .12 | Gold | 1.09 | \$.89 | \$.79 |
| 2200701 | Berg | 67997-472 | 72 | .23 x .10 x .12 | Tin | \$.79 | \$.69 | \$.59 |
| 103406 | ValuePro | 70002X36SG | 72 | .23 x .10 x .12 | Gold | \$.99 | \$.89 | \$.79 |
| 2120284 | Adam Tech | PH2-230/135-805 | 80 | .23 x .10 x .12 | Tin | \$.85 | \$.69 | \$.55 |
| 117197 | ValuePro | 923880DS | 80 | .23 x .10 x .12 | Gold | 1.39 | 1.19 | .99 |

*Dimension "A" has gold plating; dimension "C" has tin plating

.100" (2.54mm) Straight Triple Row Male Headers

*Web Code: FCC

• Example: 24 pins are 3 rows of 8 pins

Order in multiples of 10

| Part No. | Mfr. | Cross Ref. No. | Pins | Size (A"xB"xC") | Plating | 10 | 100 |
|----------|----------|----------------|------|-----------------|---------|-------|-------|
| 2178478 | Arndt | 3131-30T | 10 | .16 x .06 x .12 | Tin | \$.19 | \$.15 |
| 2076893 | ValuePro | 933824TS | 24 | .23 x .10 x .12 | Gold | \$.19 | \$.15 |

molex® KK® Series .100" (2.54mm) Female Housings with Locking Ramp

*Web Code: LBN

- Contact resistance: 20mΩ max.
- Dielectric withstanding voltage: 1500VAC
- Insulation resistance: 50kMΩ
- Voltage: 250V

Housing Material:

- Contact retention to housing: 8 lbs. min.
- Contact insertion force: 1.5 lbs. max.
- Housing: nylon, UL94V-0
- Operating temperature: 0 to 75°C



Housing with Locking Ramp

* Order in multiples of 10

| Part No. | Mfr. Part No. | Pos. | 1 | 10 | 1000 |
|----------|---------------|------|-------|-------|-------|
| 234704 | 22-01-2027 | 2 | \$.11 | \$.07 | |
| 234712 | 22-01-2037 | 3 | \$.17 | \$.11 | |
| 234721 | 22-01-2047 | 4 | \$.17 | \$.11 | |
| 234739 | 22-01-2057 | 5 | \$.25 | \$.23 | \$.15 |
| 234747 | 22-01-2067 | 6 | \$.27 | \$.25 | \$.17 |
| 234771 | 22-01-2107 | 10 | \$.49 | \$.45 | \$.35 |

Housing w/ Locking Ramp & Polarizing Ribs

* Order in multiples of 10

| Part No. | Mfr. Part No. | Pos. | 1 | 10 | 100 |
|----------|---------------|------|-------|-------|-------|
| 234798 | 22-01-3027 | 2 | \$.12 | \$.08 | |
| 234801 | 22-01-3037 | 3 | \$.17 | \$.11 | |
| 234819 | 22-01-3047 | 4 | \$.19 | \$.13 | |
| 234827 | 22-01-3057 | 5 | \$.29 | \$.25 | \$.17 |
| 234835 | 22-01-3067 | 6 | \$.35 | \$.29 | \$.19 |
| 234851 | 22-01-3087 | 8 | \$.45 | \$.39 | \$.25 |
| 234878 | 22-01-3107 | 10 | \$.49 | \$.45 | \$.35 |

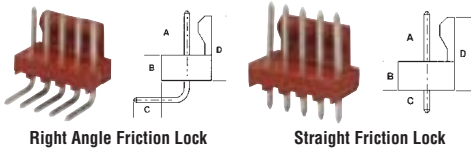
Headers, Housings & Crimp Terminals

molex®

AMP

JAMECO ValuePro

.100" (2.54mm) Straight and Right Angle Friction Lock Headers



Right Angle Friction Lock

Straight Friction Lock

879588



* Web Code: GBN

.100" (2.54mm) Right Angle Friction Lock Headers

* Order in multiples of 10

| Part No. | Mfr. | Product No. | Pos. | Size (A"xB"xC"xD") | Plating | 1 | 10 | 100 |
|----------|-------|-------------|------|-----------------------|---------|-----------|--------|--------|
| 233437 | Molex | 22-05-3021 | 2 | .26 x .13 x .14 x .32 | Tin | * | \$.19 | \$.15 |
| 233445 | Molex | 22-05-3031 | 3 | .26 x .13 x .14 x .32 | Tin |25 | .19 | .15 |
| 233453 | Molex | 22-05-3041 | 4 | .26 x .13 x .14 x .32 | Tin |29 | .25 | .19 |
| 233470 | Molex | 22-05-3061 | 6 | .26 x .13 x .14 x .32 | Tin |39 | .35 | .29 |

.100" (2.54mm) Straight Friction Lock Headers

* Order in multiples of 10

| Part No. | Mfr. | Product No. | Pos. | Size (A"xB"xC"xD") | Plating | 1 | 10 | 100 |
|----------|----------|-------------|------|-----------------------|---------|-----------|--------|--------|
| 232266 | Molex | 22-23-2021 | 2 | .30 x .13 x .14 x .32 | Tin | * | \$.15 | \$.12 |
| 879588 | Molex | 22-29-2021 | 2 | .30 x .13 x .14 x .46 | Gold |29 | .25 | .19 |
| 232274 | Molex | 22-23-2031 | 3 | .30 x .13 x .14 x .32 | Tin | * | .22 | .19 |
| 233592 | Molex | 22-11-2032 | 3 | .30 x .13 x .14 x .32 | Gold |29 | .25 | .19 |
| 232282 | Molex | 22-23-2041 | 4 | .30 x .13 x .14 x .32 | Tin | * | .15 | .12 |
| 232291 | Molex | 22-23-2051 | 5 | .30 x .13 x .14 x .32 | Tin | * | .22 | .19 |
| 348082 | ValuePro | 641215-5 | 5 | .30 x .10 x .14 x .31 | Gold |29 | .25 | .19 |
| 232303 | Molex | 22-23-2061 | 6 | .30 x .13 x .14 x .32 | Tin |25 | .19 | .15 |
| 232320 | Molex | 22-23-2081 | 8 | .30 x .13 x .14 x .32 | Tin |29 | .25 | .19 |
| 232346 | Molex | 22-23-2101 | 10 | .30 x .13 x .14 x .32 | Tin |39 | .35 | .29 |

molex® KK® Series .100" (2.54mm) Crimp Terminals

- Current: phosphor bronze – 4.0A max.; brass – 2.5A max.
- Insulation range: 0.062" (1.58mm) diameter max.
- Accommodates 22 to 30 AWG
- Material: 736501/234923/234931: brass; 736595/462969/463005: phosphor bronze

* Web Code: JCT



Bulk Packaged

Order in multiples of 10

| Part No. | Mfr. | Part No. | Plating | 10 | 100 | 1000 |
|----------|------------|---------------|---------|--------|--------|--------|
| 736501 | 08-50-0113 | Tin* | ..... | \$ .06 | \$.05 | \$.04 |
| 234923 | 08-50-0114 | Tin | ..... | .07 | .06 | .05 |
| 234931 | 08-55-0102 | 15µ" gold | ..... | .12 | .10 | .08 |
| 736595 | 08-52-0123 | Tin | ..... | .12 | .09 | .08 |
| 462969 | 08-65-0805 | Tin (cat ear) | ..... | .12 | .10 | .08 |
| 463005 | 08-65-0816 | 15µ" gold | ..... | .22 | .19 | .15 |

* Cut tape packaging

molex® .100" (2.54mm) Pitch SL™ Wire-to-Board Crimp Housings

Single Row

- Housing: black glass filled polyester, UL94V-0



Version A, Non-polarized

* Web Code: VDD

| Part No. | Mfr. | Part No. | Pos. | 1 | 10 | 100 |
|----------|------------|----------|-------|--------|--------|--------|
| 884301 | 50-57-9002 | 2 | ..... | \$ .29 | \$.25 | \$.19 |

Version G, Positive Latch

Order in multiples of 10

| Part No. | Mfr. | Part No. | Pos. | 10 | 100 |
|----------|------------|----------|-------|--------|--------|
| 884328 | 50-57-9402 | 2 | ..... | \$ .15 | \$.12 |

Female Crimp Terminals

741685

Order in multiples of 10

| Part No. | Mfr. | Part No. | AWG | Plating | 10 | 100 |
|----------|------------|----------|-----------|---------|--------|--------|
| 741685 | 16-02-0103 | 22-24 | 15µ" gold | .. | \$.09 | \$.08 |
| 741677 | 16-02-0086 | 22-24 | Tin | ..... | .06 | .05 |

* Wire Cutters, Strippers & Crimpers — Enter Web Code GBU

JAMECO ValuePro .118" (3.00mm) Micro-Fit Crimp Terminals



- Material: phosphor bronze, tin

* Web Code: UBW

Order in multiples of 10

| Part No. | Mfr. | Product No. | Fig. | AWG | 10 | 100 |
|----------|----------|-------------|------|-------|--------|--------|
| 337720 | ValuePro | 43030-0007 | 1 | 20-24 | \$.12 | \$.09 |
| 883093 | Molex | 43030-0007 | 1 | 20-24 | .09 | .07 |
| 337746 | ValuePro | 43030-0010 | 1 | 20-24 | .12 | .07 |
| 337762 | ValuePro | 43031-0007 | 2 | 20-24 | .07 | .06 |

Hand Tools for Mini-Fit Jr.™

- 304928: Crimp tool wire range from 14-24 AWG, 8.5"L
- 304936: Extraction tool, 3.5"L
- 308030: Cuts 14-24 AWG, 8.3"L
- 227491: Cuts 10-20 AWG, 8.3"L

* Web Code: GBU



| Part No. | Mfr. | Mfr. Part No. | 1 | 5 |
|----------|-----------|---------------|-------|-----------------|
| 304928 | Molex | 63811-1000 | ..... | \$54.95 \$49.95 |
| 304936 | Molex | 11-03-0044 | ..... | 27.95 24.95 |
| 308030 | GC/Waldom | W-HT-1919* | ..... | 15.95 14.49 |
| 227491 | GC/Waldom | W-HT-1921* | ..... | 15.95 14.49 |

* Strips 10-20 AWG wire

Tools for Micro-Fit Connectors



| Part No. | Cross Ref. No. | Description | Length | 1 | 5 |
|----------|----------------|-------------|--------|---------|---------|
| 338678 | HT-225D | Crimp | 8.25" | \$25.95 | \$23.49 |
| 338669 | 11-03-0043 | Extraction | 3.0" | 12.95 | 11.49 |

* Yazaki Housings & Terminals — Web Code QZX

YAZAKI YESC Housings

NEW MARKED IN PINK

- Automotive applications
- Wire to wire/wire to device
- HPA – heat resistance nylon
- Operating temp.: -40°C to +100°C

| Part No. | Mfr. | Part No. | Description | 1 | 10 | 50 |
|----------|---------------|-----------|-------------|--------|--------|--------|
| 2232702 | 7282-5567-401 | 12 pos. M | .. | \$4.95 | \$4.49 | \$3.95 |
| 2232737 | 7283-5916-401 | 12 pos. F | ..... | 4.95 | 4.49 | 3.95 |
| 2232711 | 7282-6569-402 | 13 pos. M | ..... | 5.95 | 5.39 | 4.79 |
| 2232729 | 7283-5643-402 | 13 pos. F | ..... | 5.95 | 5.39 | 4.79 |

1,2 Use with corresponding terminals on the right

AMP MATE-N-LOCK Housings

- Automotive applications
- Pb free RoHS 527056

* Web Code: MQZ



| Part No. | Mfr. | Part No. | Description | 10 | 100 | 1000 |
|----------|------------|---------------|-------------|--------|--------|--------|
| 527056 | 1-480318-0 | Female 2 pos. | ..... | \$ .25 | \$.15 | \$.12 |
| 525608 | 770017-1 | Male 2 pos. | ..... | .89 | .75 | .65 |
| 495517 | 206037-2 | CPC female | .. | 4.95 | 4.49 | 3.95 |
| 744237 | 206207-1 | CPC male | ..... | 3.95 | 3.59 | 3.29 |

1,2,3 Use with corresponding terminals below

MATE-N-LOCK Crimp Terminals

NEW MARKED IN PINK

- Automotive applications
- 600 voltage rating
- Material/plating:
 - A: Phosphor bronze/pre-tin
 - B: Copper alloy/tin
 - C: Copper/tin
 - D: Brass/gold

* Web Code: MQZ



| Part No. | Mfr. | P/N | M/F | Material† | AWG | 1 | 10 | 100 |
|----------|-----------|-----|-----|-----------|-------|--------|--------|--------|
| 2232665 | 770004-3 | 1 | F | A | 10-12 | \$.29 | \$.19 | \$.17 |
| 1977403 | 770003-3 | 1 | M | A | 10-12 | .29 | .19 | .17 |
| 2232673 | 66740-7 | 2 | F | C | 12-16 | 3.95 | 3.49 | 2.95 |
| 2231128 | 1-66255-1 | 3 | M | B | 12-16 | 1.19 | .99 | .85 |
| 2232681 | 1326032-5 | 5 | F | B | 14 | .35 | .29 | .19 |
| 2231101 | 1326031-5 | 5 | M | B | 14 | .25 | .19 | .17 |
| 2231110 | 1326031-0 | * | M | B | 14 | .25 | .19 | .17 |
| 967983 | 66100-9 | 9 | F | D | 16-18 | .59 | .49 | .39 |
| 2232690 | 1326032-1 | 1 | F | B | 22 | .29 | .25 | .19 |

1,2,3 Use with corresponding housings above

* Reel

YAZAKI YESC Crimp Terminals

- Material/plating: copper alloy/tin
- Automotive applications • Op. temp.: -40°C to +100°C
- Isolation resistance: 500VDC, 20MΩ
- Voltage drop: 10mV



| Part No. | Mfr. | Part No. | Descr. | AWG | 1 | 10 | 100 |
|----------|--------------|----------|---------|-------|--------|--------|--------|
| 2231275 | 7114-4112-02 | 1,2 | 2.8mm M | 14 | \$.25 | \$.19 | \$.15 |
| 2231241 | 7114-4120-02 | 2 | 6.3mm M | 14 | .25 | .19 | .17 |
| 2232411 | 7114-4121-02 | 2 | 6.3mm M | 14 | .25 | .19 | .15 |
| 2231224 | 7116-4112-02 | 1,2 | 2.8mm F | 14 | .25 | .09 | .07 |
| 2232438 | 7116-4121-02 | 2 | 6.3mm F | 14 | .25 | .09 | .07 |
| 2231283 | 7114-4111-02 | 1,2 | 2.8mm M | 16-18 | .25 | .19 | .15 |
| 2231232 | 7116-4111-02 | 1,2 | 2.8mm F | 16-18 | .25 | .09 | .07 |
| 2231259 | 7114-4110-02 | 1,2 | 2.8mm M | 20-22 | .25 | .19 | .15 |
| 2231267 | 7116-4110-02 | 1,2 | 2.8mm F | 20-22 | .25 | .09 | .07 |

1,2 Use with corresponding housings on the left

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
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Headers, Crimp Terminals & IDC Connectors

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

.156" (3.96mm) Headers, Housings and Crimp Terminals



JAMECO ValuePro



Fig. 1



Fig. 2

- Wire-to-board applications
- End-to-end stackable styles
- Insulator: polyester, UL 94V-0
- Housing: nylon, UL 94V-0

*Web Code: HHT

Headers

Straight Friction Lock – Brass/Tin (Fig. 1)

| Part No. | Mfr. | Product No. | Pos. | 1 | 10 | 100 |
|----------|----------|-------------|------|-------|-------|-------|
| 879887 | Molex | 26-60-4030 | 3 | \$.25 | \$.19 | \$.15 |
| 104792 | ValuePro | LMH4 | 4 | \$.25 | \$.19 | \$.15 |

Housings

With Locking Ramp (Fig. 2)

| Part No. | Mfr. | Product No. | Pos. | 1 | 10 | 100 |
|----------|----------|-------------|------|-------|-------|-----|
| 104433 | ValuePro | 7900F-3 | 3 | \$.09 | \$.08 | |
| 463435 | Molex | 09-50-3031 | 3 | \$.22 | \$.19 | |
| 236161 | AMP | 640250-4 | 4 | \$.07 | \$.05 | |
| 463443 | Molex | 09-50-3041 | 4 | \$.19 | \$.12 | |
| 104716 | ValuePro | 7900F-4# | 4 | \$.12 | \$.09 | |
| 104732 | ValuePro | 7900F-6 | 6 | \$.22 | \$.19 | |

Use with crimp pin (P/N 78319)

Crimp Terminals

- Plating: A: brass/tin; B: phosphor bronze/tin

| Part No. | Mfr. | Product No. | Plating | AWG | 10 | 100 |
|----------|----------|-------------|---------|-------|-------|-------|
| 736544 | Molex | 08-50-0189 | A | 18-20 | \$.09 | \$.07 |
| 736561 | Molex | 08-52-0072 | B | 18-20 | \$.09 | \$.07 |
| 736587 | Molex | 08-52-0113† | A | 18-20 | \$.09 | \$.06 |
| 78319 | ValuePro | JS-5001-T-R | A | — | \$.05 | \$.04 |
| 736481 | Molex | 08-50-0106 | A | 18-24 | \$.06 | \$.05 |
| 248866 | AMP | 640706-1 | A | 18-24 | \$.15 | \$.12 |

†Tufurcon, cat ear, cut tape

molex® MX150 Housings

- Automotive applications
- Wire to wire connection
- Operating temp.: -40°C to +125°C
- Pitch: 2mm, 3.5mm
- Voltage: 250VDC
- Dielectric withstanding voltage: 500VDC

*Web Code: MQZ

| Part No. | Mfr. | Part No. | Description | 1 | 10 | 25 |
|----------|------|-------------|-----------------|--------|--------|--------|
| 2232745 | | 33472-1201 | 12 pos, 3.5mm F | \$1.95 | \$1.75 | \$1.49 |
| 2232761 | | 33486-1704* | 16 pos, 1.5mm M | 2.95 | 2.49 | 1.95 |
| 2232753 | | 33476-1711* | 16 pos, 1.5mm F | 2.95 | 2.49 | 1.95 |

*Works together

molex® MX150 Crimp Terminals

- Automotive applications
- Material/plating: A: High performance alloy/tin B: Brass/gold over nickel

NEW MARKED IN PINK

*Web Code: MQZ

| Part No. | Mfr. | P/N | M/F | Material† | AWG | 1 | 10 | 100 |
|----------|------|------------|-----|-----------|----------|-------|-------|-------|
| 2232585 | | 33012-1002 | F | A | 16-20 | \$.25 | \$.15 | \$.09 |
| 2232577 | | 33000-1002 | M | A | 16,18,20 | \$.25 | \$.15 | \$.09 |
| 2232569 | | 31296-0004 | M | B | 18-20 | \$.25 | \$.15 | \$.12 |

.100" (2.54mm) Keyed Shrouded Headers & Connectors

CD-ROM 4-Pin

*Web Code: XAW

- Low profile
- Voltage rating: 250VAC/DC
- Current rating: 3A AC/DC
- Insulation res.: 1000MΩ min.
- Pin material: tin-plated brass
- Connector material: PBT, 30% glass
- Header material: PBT + 30% glass
- Withstanding voltage: 1000VAC/1 min.
- Recommend crimp tool P/N 99443, pg 120

152741

152726

152734

* Order in multiples of 10

| Part No. | Description | 1 | 10 | 100 |
|----------|--------------------|-------|-------|-------|
| 152741 | Straight header | \$.45 | \$.39 | \$.35 |
| 152726 | Rt. angle header | .49 | .45 | .39 |
| 152734 | Single with latch† | .59 | .55 | .49 |
| 181673 | Female pins | * | .05 | .04 |

† P/N 152734 requires 4 pins (P/N 181673)

.100" (2.54mm) Female Header Receptacles



Right Angle



Straight

- Gold-plated contacts

*Web Code: RAH

Single Row Right Angle (Side Entry)

| Part No. | Mfr. | Contacts | 1 | 10 | 100 |
|----------|----------|----------|-------|-------|-------|
| 2100321 | ValuePro | 8 | \$.49 | \$.39 | \$.29 |

Double Row Right Angle (Side Entry)

| Part No. | Mfr. | Contacts | 1 | 10 | 100 |
|----------|----------|----------|-------|-------|-------|
| 71159 | ValuePro | 20 | \$.89 | \$.79 | \$.69 |

Single Row Straight (Top Entry)

| | | | | | |
|---------|------------|----|-------|-------|-------|
| 2169758 | Adam Tech | 4 | \$.55 | \$.49 | \$.45 |
| 2144614 | Adam Tech* | 6 | \$.55 | \$.49 | \$.45 |
| 70755 | ValuePro | 8 | \$.55 | \$.45 | \$.35 |
| 2144631 | Adam Tech* | 8 | \$.59 | \$.49 | \$.39 |
| 2259761 | ValuePro | 9 | \$.49 | \$.45 | \$.39 |
| 2172560 | ValuePro | 10 | \$.59 | \$.49 | \$.39 |
| 2177627 | Adam Tech* | 10 | \$.79 | \$.69 | \$.59 |
| 200783 | ValuePro | 12 | \$.69 | \$.59 | \$.49 |
| 308592 | ValuePro | 16 | \$.99 | \$.89 | \$.75 |
| 308567 | ValuePro | 20 | \$.99 | \$.89 | \$.79 |
| 2168173 | Adam Tech* | 40 | 1.09 | \$.99 | \$.85 |

Double Row Straight (Top Entry)

| | | | | | |
|---------|-----------|----|-------|-------|-------|
| 70721 | ValuePro | 16 | \$.89 | \$.79 | \$.69 |
| 70827 | ValuePro | 20 | \$.95 | \$.85 | \$.75 |
| 105057 | ValuePro | 30 | \$.99 | \$.89 | \$.79 |
| 163862 | ValuePro† | 34 | \$.89 | \$.79 | \$.69 |
| 111705 | Arndt | 40 | 1.25 | 1.09 | \$.79 |
| 2134395 | Arndt# | 40 | 1.09 | \$.85 | \$.75 |

*15mm long square leads †Tin-plated #Wire wrap leads (.475" L)

IDC Connector Crimping Tools

- Use for IDC socket connectors
- Crimping distance: 27.5mm to 6mm (with attachment)
- Size: 9.2"L x 3.0"W
- Weight: 1.1 lbs.

2156033

73252: IDC attachment included

2156033: Dual slot DIP attachment included

| Part No. | Mfr. | Part No. | 1 | 10 | 25 |
|----------|---------|----------|---------|---------|---------|
| 73252 | HT-214 | | \$14.95 | \$13.49 | \$11.95 |
| 2156033 | HT-214D | | 18.95 | 16.95 | 15.49 |

.100" (2.54mm) Low Profile Male Shrouded Headers

Straight & Right Angle Double Row

- Rating: 1A (max.) @ 250VDC
- Contact resistance: 15mΩ max.
- Contact: phosphor bronze, gold plated
- Features: UL recognized CSA certified; 0.025" square post mates with sockets on 0.100" x 0.100" grid
- Use with IDC socket connectors, below

68180

*Web Code: JAH

| Part No. | Cross Ref. No. | Pos. | 1 | 10 | 100 |
|----------|----------------|------|-------|-------|-------|
| 67812 | 7110-10SG | 10 | \$.65 | \$.55 | \$.45 |
| 2100304 | 7110-14SG | 14 | .45 | .39 | .35 |
| 2167947 | BHR-16-HUA | 16 | .35 | .29 | .25 |
| 68180 | 7110-16SG | 16 | .69 | .59 | .49 |
| 68292 | 7110-20SG | 20 | .69 | .59 | .49 |
| 68372 | 7110-26SG | 26 | .65 | .55 | .45 |
| 68583 | 7110-34SG | 34 | .89 | .79 | .69 |
| 181105 | 7110-40SG | 40 | .99 | .89 | .79 |
| 2100312 | 7110-50SG | 50 | 1.09 | .99 | .89 |

.100" (2.54mm) Straight Male Headers

*Web Code: VAQ

Double Row with Standard Latch

- 0.1" contact center
- Mount vertical
- Keying slot
- Use w/ IDC socket connectors, above right



71830

| Part No. | Description | 1 | 10 | 100 |
|----------|---------------------|-------|-------|-------|
| 117664 | 10-pin male header | \$.59 | \$.49 | \$.45 |
| 71830 | 20-pin male header | .99 | .89 | .79 |
| 2076375 | 20-pin male header* | 1.49 | 1.25 | 1.09 |
| 72216 | 50-pin male header | 1.75 | 1.59 | 1.45 |

*Right angle (PCB mounted)

.100" (2.54mm) IDC Socket Connectors

Double Row

- Current rating: 1A
- Mates with 2 rows of .025" sq. or dia. posts on patterns of .100" centers (male headers, pg 54)
- Contact material: phosphor bronze w/ 1μ" gold flash on mating area, tin plated on termination area
- Industry standard IDC socket (plastic)
- Temperature rating: -55°C to +105°C
- Use crimp P/N 73252, below left
- Include strain relief

*Web Code: QAE

| Part No. | Cross Ref. No. | Contacts | 1 | 10 | 100 |
|----------|----------------|----------|-------|-------|-------|
| 2203910 | 8000-6R | 6 | \$.25 | \$.19 | \$.15 |
| 32492 | 8000-10 | 10 | .29 | .25 | .19 |
| 153948 | 8000-14 | 14 | .45 | .39 | .35 |
| 119467 | 8000-16 | 16 | .39 | .35 | .29 |
| 32522 | 8000-20 | 20 | .45 | .39 | .35 |
| 32564 | 8000-26 | 26 | .49 | .45 | .39 |
| 32644 | 8000-34 | 34 | .55 | .49 | .45 |
| 32679 | 8000-40 | 40 | .69 | .65 | .59 |
| 32708 | 8000-50 | 50 | .69 | .65 | .59 |

Non-Polarized

| | | | | | |
|--------|-----------|----|-------|-------|-------|
| 138376 | 8000-10NE | 10 | \$.25 | \$.19 | \$.15 |
| 138325 | 8000-20NE | 20 | .29 | .25 | .19 |

AMP .100" (2.54mm) IDC Ribbon Connectors

Center and Military Polarized Receptacles

- Accepts 28-26AWG solid or stranded cables
- Contact current rating: 1A continuous
- Housing, cover: 94V-0 rated thermoplastic, black
- Contacts: phosphor bronze, duplex plating

Contact Plating:

- A: 30µ" gold, 50µ" min. tin
 B: 15µ" gold, 100µ"-200µ" tin
 C: 15µ" gold, 100-200µ" tin lead, all over 50µ" min. nickel
 D: 30µ" gold, 100-200µ" bright tin lead, all over 50µ" nickel



* Web Code: RDM

| Part No. | Mfr. | Mfr. Part No. | Pos. | Plating | 1 | 10 | 100 |
|----------|------|---------------|------|---------|--------|--------|-------|
| 901642 | AMP | 1658622-1 | 10 | A | \$1.25 | \$1.09 | \$.99 |
| 525309 | AMP | 746285-1 | 10 | C | 1.25 | 1.09 | .99 |
| 742215 | AMP | 1658621-1 | 10 | B | .99 | .89 | .79 |
| 1578082 | 3M | 89110-0101 | 10 | A | .89 | .79 | .69 |
| 525317 | AMP | 746285-2 | 14 | C | 1.65 | 1.49 | 1.25 |
| 525325 | AMP | 746285-3 | 16 | C | 1.45 | 1.25 | 1.05 |
| 525333 | AMP | 746285-4 | 20 | C | 1.49 | 1.25 | 1.09 |
| 2218134 | AMP | 622-2630* | 26 | D | 1.49 | 1.25 | 1.15 |
| 525413 | AMP | 746288-6 | 26 | D | 1.75 | 1.59 | 1.35 |
| 525350 | AMP | 746285-8 | 34 | C | 1.49 | 1.25 | 1.09 |
| 525368 | AMP | 746285-9 | 40 | C | 1.75 | 1.59 | 1.45 |
| 525376 | AMP | 1-746288-0 | 50 | D | 3.59 | 3.25 | 2.95 |

* Color: blue

Strain Relief for NOVO Receptacle

Order in multiples of 10

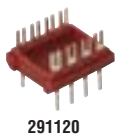
| Part No. | Mfr. | Mfr. Part No. | Pos. | 10 | 100 |
|----------|------|---------------|------|-------|--------|
| 526045 | AMP | 499252-5 | 10 | \$.19 | \$1.15 |

ARIES DIP Headers

* Web Code: XBS

Series 600 Headers w/ Coined Contacts

- Standard body material is red UL 94-HB glass filled nylon
- High temperature cover/body material is black UL 94V-0 4/6 nylon
- Contact plating: 100µ" min., tin
- Contact rating: 2A
- Operating temperature: 221°F (105°C) max.
- Fork contacts: accept up to .025" (.64mm) dia. leads



| Part No. | Mfr. Part No. | Pos. | Width* | 1 | 10 | 100 |
|----------|---------------|------|--------|--------|--------|-------|
| 291120 | 08-600-10 | 8 | 0.3" | \$1.19 | \$1.09 | \$.99 |
| 291312 | 14-600-10 | 14 | 0.3" | 1.75 | 1.49 | 1.25 |
| 291574 | 16-600-10 | 16 | 0.3" | 1.95 | 1.75 | 1.49 |

* Center to center pin width

CA .100" DIP Header Plug

- Gold-plated leads
- Header plugs: keyed corner to indicate pin 1
- U-shaped pin termination for easy component attachment
- Lead length: 0.188"
- 0.1" spacing between leads



* Web Code: XBS

| Part No. | Mfr. Part No. | Pins | Width | 1 | 10 | 100 |
|----------|---------------|------|-------|-------|-------|-------|
| 37130 | 14P-2 | 14 | 0.3" | \$.75 | \$.59 | \$.49 |

JAMECO ValuePro .100" (2.54mm) IDC DIP Flat Cable Plugs

- Mates with standard 14, 16, 20, 24, 26, 28 & 40-pin DIP sockets with 0.1" spacing
- Uses 28 AWG flat ribbon cable, pg 44
- Plastic with gold-plated contacts
- Current rating: 1A

* Web Code: KEF

| Part No. | Cross Ref. | Width | Contacts | 1 | 10 | 100 |
|----------|------------|-------|----------|-------|-------|-------|
| 42658 | 8200-14 | 0.3" | 14 | \$.45 | \$.39 | \$.35 |
| 42674 | 8200-16 | 0.3" | 16 | .65 | .59 | .55 |
| 104097 | 8200-20 | 0.3" | 20 | .65 | .55 | .49 |
| 42691 | 8200-24 | 0.6" | 24 | .75 | .65 | .49 |
| 99670 | 8200-28 | 0.6" | 28 | .79 | .69 | .55 |
| 42712 | 8200-40 | 0.6" | 40 | 1.09 | .99 | .89 |

* PCB Connectors — Enter Web Code EEN

CINCH Card Edge Connectors

- Fits all PC boards
- Gold plated contacts

* Web Code: XEE

| Part No. | Positions | Terminal | 1 | 10 | 100 |
|----------|-----------|--------------|--------|--------|--------|
| 2203021 | 36/72 | DIP solder* | \$2.95 | \$2.59 | \$2.29 |
| 2203039 | 40/80 | DIP solder* | 2.95 | 2.59 | 1.95 |
| 2203012 | 43/86 | Solder tab | 2.95 | 2.59 | 2.29 |
| 2133536 | 60/120 | DIP solder*# | .39 | .29 | .25 |

* Without mounting ears # AMP/Tyco

.156" (3.96mm) Density Wire-Wrap Terminal

| Part No. | Positions | Terminal | 1 | 10 | 100 |
|----------|-----------|-----------|--------|--------|--------|
| 2203047 | 30/60 | Wire wrap | \$2.95 | \$2.59 | \$2.29 |

AMP AMPMODU™ .100" (2.54mm) Receptacle Housing & Contacts

Single Row, Non-Polarized, Crimp Snap-In Housing (MOD IV)

- No PC with UMN
- Black thermoplastic, flame retardant

| Part No. | Mfr. Part No. | Pos. | Width | 1 | 10 | 100 |
|----------|---------------|------|--------|--------|-------|-------|
| 526871 | 87499-3 | 2 | 0.205" | \$1.09 | \$.99 | \$.89 |

Standard Pressure Receptacle Contacts (MOD IV)

- Material: phosphor bronze
- No PC with UMN
- Plating:

- 527486: 15µ" gold in contact area, 100µ" - 200µ" bright tin lead, all over 50µ" nickel
- 895844: Short point; 22-26 AWG; 50µ" nickel entire area; 15µ" gold in contact area

* Order in multiples of 10

| Part No. | Mfr. Part No. | 1 | 10 | 100 |
|----------|---------------|-------|-------|-------|
| 527486 | 87523-6 | \$.19 | \$.15 | \$.15 |
| 895844 | 104480-3 | .25 | .09 | .07 |

* Gray Ribbon Cables — Enter Web Code WBX

ARDUINO MOTOR SHIELD, REV. 3

- L289P drive 2 DC motors or 1 stepper motor
- Dual full-bridge drives inductive loads like relays, solenoids, DC and stepper motors
- 2A per channel or 4A maximum (with extension power supply)
- Measure motor current absorption for each motor
- Free running stop and brake function
- Current sensing 1.65V/A
- Operating volt. 5V to 12V



| Part No. | Mfr. Part No. | Price |
|----------|---------------|---------|
| 2152403 | A00009 | \$29.95 |

.100" (2.54mm) Non-Polarized Connector Housings & Crimp Pins



- Mates with 0.025" square post on pattern of 0.100" centers (male headers, pg 54)
- Housing material: plastic
- Pin material: brass/tin plated
- Temp. rating: -55°C to +105°C
- Use crimper P/N 159266, pg 120
- Current rating: 1A
- 26-22 AWG

* Web Code: YAL

Single Row

* Order in multiples of 10

| Part No. | Cross Ref. No. | Contacts | 1 | 10 | 100 |
|----------|----------------|----------|-------|-------|-------|
| 100812 | SCH2 | 2 | \$.22 | \$.19 | \$.19 |
| 157383 | SCH3 | 3 | .39 | .35 | .29 |
| 100803 | SCH4 | 4 | .39 | .35 | .29 |
| 163686 | SCH5 | 5 | .35 | .29 | .25 |
| 103212 | SCH6 | 6 | .49 | .45 | .39 |
| 2259753 | CH328-07-R | 7 | .45 | .39 | .35 |
| 103203 | SCH8 | 8 | .45 | .39 | .35 |
| 2259761 | CH328-09-R | 9 | .49 | .45 | .39 |
| 103191 | SCH10 | 10 | .59 | .55 | .49 |
| 103182 | SCH20 | 20 | .65 | .59 | .55 |
| 103158 | SCH36 | 36 | .69 | .59 | .55 |

Double Row

* Web Code: ZBQ

| | | | | | |
|--------|-------|----|-------|-------|-------|
| 103254 | DCH8 | 8 | \$.39 | \$.35 | \$.29 |
| 157421 | DCH10 | 10 | .45 | .39 | .35 |

Crimp Pins for Single/Double Row Housings

* Order in multiples of 10

* Web Code: XAL

| Part No. | Cross Ref. No. | Description | 10 | 100 | 500 |
|----------|----------------|-------------|-------|-------|-------|
| 100766 | FCH1 | Female pin | \$.19 | \$.15 | \$.12 |
| 145358 | MCH1 | Male pin | .19 | .15 | .12 |

CINCH Jones Plugs and Socket

Series 300 Multiple-Density Solder-Eyelet Connectors

* Web Code: WBP

- Insulation material: molded monoblock, black phenolic
- Contact material: plug — brass; socket — phosphor bronze
- Contact plating: cadmium
- Operating voltage: 250VAC max.
- Contact resistance: 16mΩ max.
- Current rating: 10 amps
- 2 position is round
- Hood material: UL 94V-0 rated thermoplastic



Socket with Hood and 180° Clamp

| Part No. | Mfr. Part No. | Contacts | 1 | 10 |
|----------|---------------|----------|--------|--------|
| 248831 | S-306H-CCT | 6 | \$5.49 | \$4.95 |

Plugs with Hood and 180° Clamp

| | | | | |
|--------|------------|---|--------|--------|
| 248760 | P-302H-CCT | 2 | \$3.95 | \$3.59 |
| 248786 | P-304H-CCT | 4 | 4.49 | 4.25 |
| 248794 | P-306H-CCT | 6 | 4.75 | 4.49 |

* Multicolor Ribbon Cables — Enter Web Code WCF

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by phone 24/7 at 1-800-831-4242 or online at www.Jameco.com

DIN, USB & CPC Connectors & Sockets

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



Mini DIN & DIN Panel Mount Female Sockets

- With solder lugs
- Metal body

*** Web Code: FAB**

| Part No. | Cross Ref. | Description | 1 | 10 | 100 |
|----------|------------|----------------|--------|--------|--------|
| 2076762 | | | | | |
| 15852 | | | | | |
| 2205510 | MDPM4 | 4-pin mini DIN | \$.95 | \$.85 | \$.75 |
| 2076762 | MDPM6 | 6-pin mini DIN | 1.49 | 1.35 | 1.09 |
| 2205501 | 57HB5F* | 5-pin DIN | 2.49 | 2.25 | 1.95 |
| 15844 | DINJ5 | 5-pin DIN | .99 | .89 | .69 |
| 15852 | DINJ6 | 6-pin DIN | 1.25 | 1.05 | .95 |
| 15861 | DINJ8 | 8-pin DIN | 1.39 | 1.09 | .99 |

* Manufacturer: Switchcraft

Mini-DIN & DIN PC Mount Female Sockets

*** Web Code: DMS**

- Set back: 0.5"

| | | | |
|----------------------------|---------|--------|--------|
| 29399: Plastic body | 2228834 | 140791 | 207722 |
| 119475: Plastic/metal body | | | |

Unshielded (DIN) – Right Angle

| Part No. | Product No. | Description | 1 | 10 | 100 |
|----------|-------------|-------------|--------|--------|--------|
| 29399 | RD5 | 5-pin DIN | \$.85 | \$.69 | \$.65 |
| 2228834 | T3507 | 8-pin DIN | 2.95 | 2.59 | 2.29 |

Shielded (Mini DIN) – Right Angle

| Part No. | Product No. | Description | 1 | 10 | 100 |
|----------|-------------|----------------|--------|--------|--------|
| 140791 | MDR4S | 4-pin mini DIN | \$.29 | \$.19 | \$.15 |
| 119475 | MDR6S | 6-pin mini DIN | .89 | .79 | .69 |
| 207722 | MDR8S | 8-pin mini DIN | .29 | .19 | .15 |

For complete selection of Computer Cables, see page 137



Circular Military Spec Connectors

- Solder terminals
- Aluminum alloy
- Straight plug or Jamnut receptacle
- Military spec: MIL-C-26432-1
- Olive drab color
- Hermetic sealed
- Electrically conductive cadmium plate bayonet lock connector
- General duty back shell
- Pin and socket contacts



2231021

| Part No. | Mfr. Part No. | 1 | 10 | 25 |
|----------|---------------|---------|---------|---------|
| 2231021 | PT06A-14-5S | \$19.95 | \$17.95 | \$15.95 |
| 2232403 | PT06E-18-32P | 29.95 | 27.95 | 25.95 |
| 2231005 | PT07A-10-6S | 14.95 | 13.49 | 11.95 |
| 2231013 | PT07A-12-10P | 19.95 | 17.95 | 15.95 |

AMP CPC Circular Plastic Connectors

Series 1 — Standard density, signal and low-current applications

- Accepts type III+, high-current type II and subminiature coax contacts
- Voltage rating: 600V (UL)

Receptacles – Panel Mount

*** Web Code: WBK**

| Part No. | Mfr. P/N | Size/Pos. | Gender | Mating Connector | 1 | 10 |
|----------|----------|-----------|----------|------------------|--------|--------|
| 495218 | 206430-1 | 11-4 | Reverse | 495091 | \$3.19 | \$2.89 |
| 495162 | 206061-1 | 11-4 | Standard | 495082 | 2.95 | 2.75 |
| 495234 | 206705-1 | 13-9 | Standard | 495103 | 3.39 | 3.09 |
| 421382 | 206036-1 | 17-16 | Standard | 495322 | 3.19 | 2.89 |



Displayport Receptacle

Displayport receptacles are royalty free products that can be used in any application where an HDMI connection was previously required.

- 15µ gold plating

*** Web Code: DPP**



| Part No. | Mfr. Part No. | Description | Type | Mounting Style | 1 | 10 | 100 |
|----------|---------------|---|------|----------------|--------|--------|--------|
| 2114247 | MDPC-S-RA | Mini displayport, receptacle, right angle | DIP | Through hole | \$2.49 | \$2.25 | \$1.95 |



USB-A & B 1.0 & 2.0 Female Connectors

*** Web Code: DAZ**



| Part No. | Mfr. | Product No. | Description | 1 | 10 | 100 |
|----------|----------|------------------|---|--------|--------|--------|
| 2096181 | Adamtech | USB-A-S-RA | USB-A, right angle | \$.55 | \$.49 | \$.45 |
| 2097011 | Adamtech | USB-A-S-VT | USB-A, vertical | .55 | .49 | .45 |
| 161024 | ValuePro | 1040 | USB-A 1.0 | .89 | .79 | .69 |
| 2076551 | KobiConn | UAR64-8W2100 | USB-A 2.0, dual port | .69 | .59 | .29 |
| 2096261 | Adamtech | MUSB-B5-S-RA-SMT | Mini USB-B, right angle, surface mount | .89 | .79 | .69 |
| 2096245 | Adamtech | USB-B-S-RA | USB-B, right angle | .45 | .39 | .35 |
| 230958 | ValuePro | USB-B-S-RA-WT | USB-A 2.0, right angle, white insulator | .99 | .89 | .79 |



Mini-DIN & DIN Plugs and Receptacles



- Solder barrels w/ strain relief
- See pg 43 for cable

*** Web Code: DAV**

| Part No. | Pins | Type | 1 | 10 | 100 |
|----------|------|---------------|--------|--------|--------|
| 142262 | 6 | Mini DIN plug | \$.85 | \$.75 | \$.65 |
| 111878 | 8 | Mini DIN plug | .89 | .79 | .69 |
| 15879 | 5 | DIN plug | .69 | .65 | .59 |
| 15887 | 6 | DIN plug | .85 | .69 | .65 |
| 2178638 | 6 | DIN plug* | 3.25 | 2.95 | 2.75 |
| 15895 | 8 | DIN plug | .85 | .65 | .49 |

* Nickel plated diecast handle (Switchcraft)

AMP Circular Cable Clamps

Provides strain relief and can be used in all series receptacles and plugs.

- Material: thermoplastic black, UL94V-0 rated (plastic); zinc alloy (metal)

*** Web Code: OLI**



| Part No. | Mfr. P/N | Material | Size | Shell O.D.(max.) | Cable O.D.(max.) | 1 | 10 |
|----------|----------|----------|------|------------------|------------------|--------|--------|
| 494039 | 206062-1 | Plastic | 11 | .329" | ... | \$4.15 | \$3.69 |
| 494055 | 206966-1 | Plastic | 13 | .453" | ... | 4.15 | 3.69 |
| 494063 | 206070-1 | Plastic | 17 | .453" | ... | 4.15 | 3.69 |
| 749812 | 206070-8 | Plastic | 17 | .453" | ... | 2.95 | 2.75 |

AMP CPC Contacts

Type III+ Snap-In Crimp Pins with Retention Spring

*** Web Code: LEF**



- Finish:

A: 30µ" gold over nickel
B: 15µ" gold over nickel
C: Tin-lead

- Crimp type except
- Contact body – brass or phosphor bronze

| Part No. | Mfr. P/N | AWG | Finish | Type | 1 | 10 |
|----------|-----------|-------|--------|--------|--------|--------|
| 526441 | 1-66361-1 | 18-14 | A | Pin | \$.95 | \$.85 |
| 526424 | 66180-1 | 18-16 | A | Pin* | .99 | .89 |
| 526432 | 66181-1 | 18-16 | A | Socket | 1.35 | 1.19 |
| 526459 | 66103-3 | 24-20 | B | Pin | .65 | .55 |
| 526563 | 1-66103-5 | 24-20 | C | Pin | .45 | .39 |
| 526379 | 66105-3 | 24-20 | B | Socket | .65 | .59 |
| 526504 | 1-66105-6 | 24-20 | C | Socket | .59 | .55 |

* P/N 526424 (solder type)

Size 20DF Contacts

A: 30µ" gold over nickel B: gold flash over nickel

- Contact body: brass

| Part No. | Mfr. P/N | AWG | Finish | Type | Order in multiples of 10 | 10 | 100 |
|----------|-----------|-------|--------|--------|--------------------------|--------|--------|
| 223298 | 66504-9 | 24-20 | A | Socket | .. | \$.22 | \$.19 |
| 223255 | 1-66504-0 | 24-20 | B | Socket | ... | .19 | .15 |



495218

421382

495091

495103

495031

Plugs – Free Hanging

| Part No. | Mfr. P/N | Size/Pos. | Gender | Mating Connector | 1 | 10 |
|----------|----------|-----------|----------|------------------------|--------|--------|
| 495091 | 206429-1 | 11-4 | Reverse | 495218, 839501, 495226 | \$3.69 | \$3.45 |
| 495082 | 206060-1 | 11-4 | Standard | 495162, 839324, 495197 | 3.25 | 2.95 |
| 495103 | 206708-1 | 13-9 | Standard | 919447, 495234, 495242 | 4.25 | 3.89 |
| 495031 | 206044-1 | 17-14 | Reverse | 750311, 495146 | 4.25 | 3.89 |
| 495322 | 206037-1 | 17-16 | Standard | 421382, 495314 | 4.49 | 4.15 |

BNC Connectors & Adapters

Amphenol Connex AMP



50Ω/75Ω BNC Connectors and Adapters

Additional Amphenol RF 31 Series Plugs, Jacks and Adapters visit Jameco.com and use the Web Code listed below

*Web Code: BCP

Plugs

| Part No. | Manufacturer | Product No. | Fig. | Description | 1 | 10 | 50 |
|----------|--------------|---------------|------|---|--------|--------|--------|
| 223394 | Amphenol RF | 31-12 | 1 | 50Ω plug, clamp, for RG-59/62/71/140/210 (UG-260/U) | \$1.25 | \$1.09 | \$.99 |
| 71482 | Steren | 200-145 | 2 | 50Ω plug, 3 pcs, crimp, for RG-58 | 1.35 | 1.19 | 1.09 |
| 188306 | Amphenol RF | 31-320-RFX | 2 | 50Ω plug, 3 pcs, crimp, for RG-58/58C/141/B7806A | 1.59 | 1.45 | 1.35 |
| 2185694 | Amphenol RF | 31-321-1002 | 2 | 50Ω plug, 3 pcs, crimp | .65 | .55 | .45 |
| 2161246 | ValuePro | B-111L-R-NGD | 2 | 50Ω plug, 3 pcs, crimp, for RG-174/U; 188A/U; 316/U | 1.09 | .99 | .89 |
| 2183664 | Amphenol RF | 31-325 | 2 | 50Ω plug, 3 pcs, crimp | 1.95 | 1.75 | 1.46 |
| 71271 | Steren | 200-143 | 2 | 75Ω plug, 3 pcs, crimp, for RG-59 | .99 | .89 | .79 |
| 2205448 | Amphenol RF | 31-71032 | 2 | 75Ω plug, 3 pcs, crimp, for RG-59, double braided | 2.49 | 2.25 | 1.95 |
| 2185803 | Amphenol RF | 31-70068 | 2 | 75Ω plug, right angle, 3 pcs, crimp, for RG-179 | .49 | .39 | .29 |
| 2085052 | Amphenol RF | 31-71013 | 3 | 75Ω plug, 4 pcs, crimp, for RG-179/187 | 1.95 | 1.75 | 1.49 |
| 744712 | Amphenol RF | 31-70013-1000 | 3 | 75Ω plug, 4 pcs, crimp | .75 | .65 | .55 |
| 112110 | ValuePro | G7409 | 3 | 50Ω male with pin and ferrule, for RG-174, 4 pcs. | 1.49 | 1.25 | 1.09 |
| 2084990 | Amphenol RF | 31-242 | 3 | 50Ω plug, 5 pcs, crimp, for RG-179/187 | 1.49 | 1.25 | 1.09 |
| 2258620 | Arndt | RG-6U-BNC | 2 | 75Ω plug, 2 pcs, crimp, for RG-6U | 1.25 | 1.09 | .99 |
| 2258638 | Arndt | RG-59U-BNC | 4 | 75Ω plug, BNC compression fitting for RG59U | 1.49 | 1.25 | 1.09 |
| 2185678 | Amphenol RF | 9350 | 5 | 50Ω plug, 6 pcs, crimp, for RG-6 | 1.95 | 1.75 | 1.49 |

Jacks

| Part No. | Manufacturer | Product No. | Fig. | Description | 1 | 10 | 50 |
|----------|-----------------|-------------|------|--|--------|--------|--------|
| 174290 | ValuePro | TBC-090 | 6 | Jack, chassis mount | \$1.25 | \$1.09 | \$.99 |
| 355178 | ValuePro | 31-221 | 7 | 50Ω jack, panel mount, solder cup (UG-1094/U) ¹ | 2.09 | 1.89 | 1.69 |
| 223520 | Amphenol RF | 31-236-RFX | 8 | 50Ω bulkhead jack, panel mount, solder cup | 1.49 | 1.25 | 1.09 |
| 2161297 | ValuePro | B-235-1-R | 9 | 50Ω bulkhead jack, solder terminal..... | 1.25 | 1.09 | .99 |
| 658427 | Amphenol Connex | 112424 | 10 | 50Ω bulkhead jack, solder cup ¹ | 1.75 | 1.59 | 1.45 |
| 493917 | AMP | 227161-3 | 11 | 50Ω jack, right angle, PCB ² | 1.49 | 1.25 | 1.09 |
| 421331 | AMP | 227726-3 | 12 | 50Ω jack, isolated, solder | 2.95 | 2.75 | 2.49 |
| 111561 | Steren | 200-148 | 13 | 50Ω jack, isolated, panel mount ¹ | 2.09 | 1.89 | 1.69 |
| 223360 | Amphenol RF | 31-5 | 14 | 50Ω jack, 6 pcs, RG-55/141/142/223/400 | 3.39 | 2.95 | 2.75 |
| 2185731 | Amphenol RF | 31-347 | 15 | 50Ω jack, 6 pcs, straight, bulkhead | 1.25 | 1.09 | .99 |
| 2185723 | Amphenol RF | UG-909B/U | 15 | 50Ω jack, 8 pcs, straight, panel mount | 1.49 | 1.25 | 1.09 |
| 160929 | ValuePro | B211F-58 | 16 | Jack, 3 pcs, crimp type, for RG-58 | .99 | .89 | .79 |
| 2205190 | ValuePro | WJ-7022-M-A | 16 | Jack, 3 pcs, crimp type, for RG-58/U/141 | 1.95 | 1.75 | 1.49 |
| 2185820 | Amphenol RF | 31-332 | 16 | 50Ω jack, 3 pcs, crimp | .79 | .69 | .59 |
| 2077618 | ValuePro | BNC-CR | 17 | 75Ω jack, chassis PCB receptacle | 1.09 | .99 | .89 |
| 2185715 | Amphenol RF | 31-5486 | 18 | 50Ω jack, right angle, PC mount, valox with Hdwr ² (0-1GHz) | 1.25 | 1.09 | .99 |
| 146511 | ValuePro | CH-7044S | 18 | 50Ω jack, right angle, PC mount, with Hdwr ² (0-2GHz)..... | 1.95 | 1.75 | 1.49 |
| 71590 | ValuePro | G1B235 | 19 | Jack, panel mount (UG-1094A) ¹ | 1.75 | 1.49 | 1.25 |
| 1952821 | Foxconn | KDA1001-H0 | 20 | Jack, right angle, plastic insulation, PC mount ² | .59 | .39 | .35 |

Additional Panel Mounting Hardware: P/N 2186030 (1) (2 nuts, 1 washer) and P/N 2186021 (2) (2 nuts, 1 washer), see pg 78

Adapters/Couplers

| Part No. | Manufacturer | Product No. | Fig. | Description | 1 | 10 | 50 |
|----------|-----------------|-----------------|------|---|--------|--------|--------|
| 127343 | ValuePro | B-311 | 21 | 50Ω male/male coupler (UG-491B/U) | \$2.49 | \$2.25 | \$1.95 |
| 355152 | ValuePro | 31-219-RFX | 22 | 50Ω straight adapter, jack-jack (UG-914/U) | 2.95 | 2.75 | 2.49 |
| 72629 | Steren | 200-150 | 23 | 50Ω female to female/female T-adapter | 1.95 | 1.75 | 1.49 |
| 2258611 | Arndt | FFF-T-BNC | 23 | 50Ω female to female/female T-adapter | 1.59 | 1.45 | 1.29 |
| 118594 | Steren | 200-155 | 24 | 50Ω male to female/female T-adapter | 1.75 | 1.49 | 1.25 |
| 2258591 | Arndt | MFF-T-BNC | 24 | 50Ω male to female/female T-adapter | 1.35 | 1.19 | 1.09 |
| 71909 | Steren | 200-160 | 25 | Female/female coupler (UG-914) | 1.09 | .99 | .89 |
| 2225924 | ValuePro | MCI-7062-2500HM | 26 | 50Ω female/female BNC bulkhead adapter | 2.75 | 2.49 | 2.25 |
| 100597 | ValuePro | 40958-Y | 27 | 50Ω male to female/female T-adapter (180°) | 5.49 | 4.95 | 4.49 |
| 658451 | Amphenol Connex | 112437 | 28 | 50Ω jack-to-jack bulkhead adapter (all 50Ω coax cables) | 4.09 | 3.75 | 3.59 |
| 2258603 | Arndt | MF-RA-BNC | 29 | 50Ω male to female right angle | 2.25 | 1.95 | 1.75 |
| 2085204 | Amphenol RF | 82-5590 | 29 | Receptacle, twinaxial solder cup, front-mounted | .79 | .69 | .59 |
| 127352 | ValuePro | B-412 | 30 | 50Ω male to female right angle (DG-306B/O) | 3.95 | 3.59 | 3.25 |

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



Fig. 1

Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9

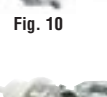


Fig. 10

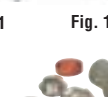


Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16

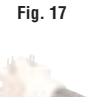


Fig. 17



Fig. 18

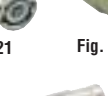


Fig. 19



Fig. 20



Fig. 21



Fig. 22

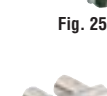


Fig. 23



Fig. 24



Fig. 25



Fig. 26

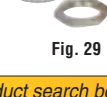


Fig. 27

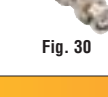


Fig. 28



Fig. 29



Fig. 30

Interconnects



Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

BNC, RCA, SMA/SMB Connectors & Adapters

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

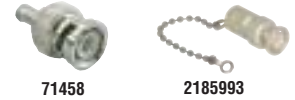
Amphenol® Connex



BNC Terminators

* Web Code: BCT

| Part No. | Manufacturer | Product No. | Description | 1 | 10 | 50 |
|----------|--------------|--------------|---|--------|--------|--------|
| 71458 | ValuePro | B-611T | 50Ω BNC male terminator | \$1.49 | \$1.25 | \$1.09 |
| 2185993 | Kings | MX554A/U | 91Ω BNC straight terminator with cap and chain | .65 | .55 | .45 |
| 2084341 | Amphenol | MX554A/U-100 | 100Ω BNC straight terminator with cap and chain | .79 | .69 | .59 |



JAMECO ValuePro

BNC, RCA & SMA RF Adapters

* Web Code: RFS

| Part No. | Manufacturer | Product No. | Description | 1 | 10 | 50 |
|----------|-----------------|-------------|--|--------|--------|--------|
| 153454 | ValuePro | SB-321 | SMA female to BNC male | \$2.25 | \$1.95 | \$1.75 |
| 159469 | ValuePro | CH-7830-N | SMA female to BNC female | 3.19 | 2.89 | 2.59 |
| 153593 | ValuePro | 4288 | SMA male to BNC male | 2.75 | 2.49 | 2.25 |
| 159477 | ValuePro | CH-7820-N | SMA male to BNC female | 3.59 | 3.25 | 2.95 |
| 2185985 | Amphenol Connex | 95625 | SMA female to BNC male, right angle, 3 pcs. | .75 | .65 | .55 |
| 114789 | ValuePro | BR312 | RCA female to BNC male | 1.99 | 1.79 | 1.59 |
| 114753 | ValuePro | RB312 | RCA male to BNC female | 1.75 | 1.49 | 1.25 |
| 2258582 | Arndt | RCA-M-BNC-F | RCA male to BNC female | 1.25 | 1.19 | 1.09 |
| 2178110 | Pomona | 1297 | BNC female to 1/4" male 2 connector phone plug | 13.95 | 13.49 | 12.95 |
| 114770 | Steren | 200-108 | BNC female to F connector male | 1.09 | .99 | .89 |
| 174255 | Steren | TBC-176 | BNC male to F connector female | 1.25 | 1.09 | .99 |



75Ω "F" Connector

* Web Code: FCA

| Part No. | Manufacturer | Product No. | Description | 1 | 10 | 50 |
|----------|--------------|-------------|-------------------------------------|--------|-------|-------|
| 295380 | Steren | 200-107* | F-right angle jack to plug (nickel) | \$1.09 | \$.99 | \$.89 |

* Additional panel mounting hardware (2 nuts, 1 washer) P/N 2182611, see pg 78

Amphenol® Connex

RF "N" Type Connector

* Web Code: TNC

| Part No. | Manufacturer | Product No. | Description | 1 | 10 | 50 |
|----------|-----------------|-------------|-------------------------------------|-------|-------|-------|
| 2185926 | Amphenol Connex | 15975 | Right angle clamp connector, N-type | \$.79 | \$.69 | \$.59 |

JAMECO ValuePro

50Ω MMCX Connector

* Web Code: SGX

| Part No. | Manufacturer | Product No. | Description | 1 | 10 | 50 |
|----------|--------------|--------------|--|--------|--------|--------|
| 311693 | ValuePro | 908-43300-VP | Right angle plug, crimp (RG-174/188/316) | \$1.75 | \$1.49 | \$1.25 |



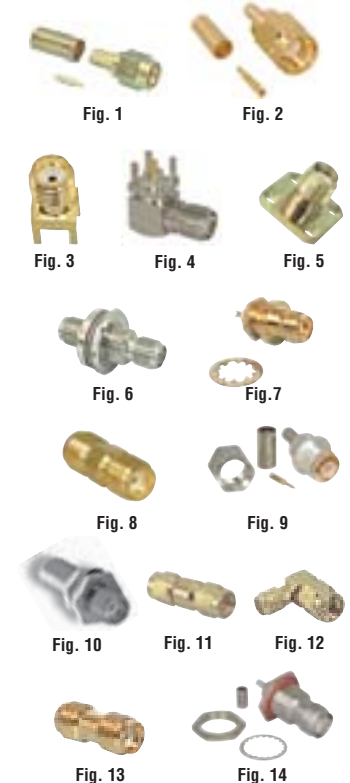
Amphenol® Connex

50Ω SMA/SMB Connectors

* Web Code: SGX

| Part No. | Manufacturer | Product No. | Fig. | Description | Plating | 1 | 10 | 10 |
|----------|-----------------|----------------|------|--|---------|--------|--------|--------|
| 2178304 | ValuePro | SS-A111F-RNGT† | 1 | Straight crimp type female jack (RG-58), 3 pcs. | Nickel | \$1.25 | \$1.09 | \$.99 |
| 153366 | ValuePro | 4804 | 2 | Straight crimp type male plug (RG-174), 3 pcs. | Gold | 3.59 | 3.25 | 2.95 |
| 2185934 | Amphenol Connex | 31-5187 | 9 | Straight crimp type male plug, 4 pcs., SMB | Nickel | .79 | .69 | .59 |
| 145382 | ValuePro | 19-46G | 3 | Straight female PCB mount, 4 legs | Gold | 2.75 | 2.49 | 2.25 |
| 2217060 | ValuePro | S-P225-RNGT | 4 | Jack, right angle, PC mount | Nickel | 2.25 | 2.09 | 1.89 |
| 159531 | ValuePro | CH-7814# | 5 | Female panel mount, 4 mounting holes (G-58/174) | Gold | 3.25 | 2.95 | 2.75 |
| 160013 | ValuePro | CH-7818-N✓ | 6 | Panel mount feed thru, female-female | Nickel | 4.49 | 3.95 | 3.59 |
| 153286 | ValuePro | SMA-7813 | 7 | Bulkhead solder female w/ washer, rear mount (RG-58/174) | Gold | 3.25 | 2.95 | 2.75 |

† Reverse polarity # Solder cup ✓ Additional panel mounting hardware (2 nuts, 1 washer) P/N 2182611, see pg 78



Amphenol® Connex

SMA Adapters and Couplers

* Web Code: SGX

| Part No. | Manufacturer | Product No. | Fig. | Description | Plating | 1 | 10 | 50 |
|----------|-----------------|-------------|------|---|---------|--------|--------|--------|
| 659041 | Amphenol Connex | 132169 | 8 | 50Ω jack-to-jack adapter | Gold | \$4.95 | \$4.75 | \$4.49 |
| 2161300 | ValuePro | S-322-H-R | 10 | 50Ω jack-to-jack adapter, bulkhead feed-through | Gold | 2.69 | 2.39 | 2.15 |
| 659059 | Amphenol Connex | 132170 | 10 | 50Ω jack-to-jack adapter, bulkhead feed-through | Gold | 9.95 | 9.49 | 5.95 |
| 161294 | ValuePro | S-311-G | 11 | Straight coupler male-male | Gold | 3.39 | 3.09 | 2.75 |
| 161307 | ValuePro | S-412-G | 12 | Right angle coupler male-female | Gold | 5.49 | 4.95 | 4.49 |
| 153294 | ValuePro | SMA-7817 | 13 | Straight coupler female – jack-to-jack | Gold | 3.39 | 3.09 | 2.75 |

50Ω TNC Bulkhead Connector

| Part No. | Manufacturer | Product No. | Fig. | Description | 1 | 10 | 50 |
|----------|--------------|---------------|------|--------------------------|-------|-------|-------|
| 2197521 | Rosenberger | 56RK607-803N4 | 14 | 50Ω bulkhead jack, crimp | \$.99 | \$.89 | \$.79 |

* SMA/SMB Connectors — Enter Web Code BZM



SMA/SMB 50Ω Coax Cables

* Web Code: BZM



Fig. 1

Fig. 2

Fig. 1: SMA male to SMA male
Fig. 2: SMB plug female to SMB plug female

| Part No. | Cable | Fig. | Lgth (ft.) | 1 | 10 | 50 |
|----------|--------|------|------------|--------|--------|--------|
| 159397 | RG-58 | 1 | 6' | \$3.95 | \$3.59 | \$3.25 |
| 169801 | RG-174 | 1 | 0.5' | 3.29 | 2.95 | 2.75 |
| 163855 | RG-174 | 1 | 1' | 4.09 | 3.69 | 3.35 |
| 153382 | RG-174 | 1 | 2' | 5.25 | 4.75 | 4.25 |
| 153391 | RG-174 | 1 | 4' | 5.49 | 4.95 | 4.49 |
| 159451 | RG-174 | 1 | 6' | 7.29 | 6.95 | 6.25 |
| 175178 | RG-174 | 2 | 1' | 4.95 | 4.49 | 3.95 |



BNC Male Coax Cables

* Web Code: BBD



Fig. 1

Fig. 2

RG58/U 50Ω Network & Oscilloscope Cables

| Part No. | Cross Ref. | Fig. | Length | 1 | 10 | 100 |
|----------|------------|------|--------|--------|--------|--------|
| 181308 | CRG58-1RR | 1 | 1' | \$3.95 | \$3.59 | \$3.29 |
| 102315 | CRG58-1 | 2 | 1.5' | 4.09 | 3.69 | 3.35 |
| 256743 | CBB-224-24 | 2 | 2' | 4.25 | 3.95 | 3.59 |
| 11404 | CRG58-3* | 2 | 3' | 4.49 | 4.19 | 3.75 |
| 102331 | CRG58-6* | 2 | 6' | 4.75 | 4.35 | 3.95 |
| 180822 | CRG58-10 | 2 | 10' | 4.95 | 4.59 | 4.09 |
| 102350 | CRG58-12 | 2 | 12' | 5.35 | 4.85 | 4.35 |
| 169818 | CRG58-15 | 2 | 15' | 5.95 | 5.39 | 4.79 |
| 102357 | CRG58-25* | 2 | 25' | 6.95 | 6.25 | 5.59 |
| 102365 | CRG58-50* | 2 | 50' | 7.95 | 6.95 | 6.25 |
| 102381 | CRG58-100* | 2 | 100' | 9.95 | 8.95 | 7.95 |

* Manufacturer: Steren

RG6 75Ω Cable

| Part No. | Cross Ref. | Fig. | Length | 1 | 10 | 50 |
|----------|------------|------|--------|--------|--------|--------|
| 176794 | RG6-3 | 2 | 3' | \$4.75 | \$4.25 | \$3.75 |

RG59/U 75Ω CATV & Video Patch Cord

| Part No. | Cross Ref. | Fig. | Length | 1 | 10 | 100 |
|----------|------------|------|--------|--------|--------|--------|
| 85543 | CRG59-6 | 2 | 6' | \$4.49 | \$3.95 | \$3.59 |

RG174/U 50Ω Network & Oscilloscope Cables

| Part No. | Cross Ref. | Fig. | Length | 1 | 10 | 50 |
|----------|------------|------|--------|--------|--------|--------|
| 111473 | RG174U3 | 2 | 3' | \$5.75 | \$5.25 | \$4.75 |
| 111482 | RG174U6 | 2 | 6' | 7.29 | 6.59 | 5.95 |

EGE Telecom Splice Connectors

Provides clean, solid and rapid connection of wires to keep lines free of noise



* Order in multiples of 10

| Part No. | Color | AWG | Conductors | 1 | 10 | 100 |
|----------|--------|-------|------------|--------|--------|-----|
| 169747 | Yellow | 22-26 | 2 | \$1.19 | \$1.12 | |
| 169755 | Red | 19-26 | 3Y | .29 | .25 | .19 |



Standard Double Row Barrier Terminal Blocks

- Insulation: molded mono block, general purpose phenolic, black, UL94V-1
- Screw material: steel with nickel over copper flash plating



140 Series 15A (5-40 x 3/16" BH screws)

- 3750-watts/terminal max.
- 16 AWG wire max.
- Size: 0.88"W x 0.41"H

* Web Code: YBM

| Part No. | Mfr. P/N | Pos. | Length | 1 | 10 | 100 |
|----------|----------|------|--------|--------|--------|--------|
| 2172682 | TDA-02* | 2 | 1.42" | \$0.89 | \$0.79 | \$0.69 |
| 230973 | 2-140 | 2 | 1.41" | 1.95 | 1.75 | 1.49 |
| 2173757 | TDA-03* | 3 | 1.79" | .75 | .65 | .55 |
| 230990 | 4-140 | 4 | 2.16" | 2.05 | 1.95 | 1.85 |
| 231010 | 6-140 | 6 | 2.91" | 2.75 | 2.49 | 2.35 |
| 231036 | 8-140 | 8 | 3.66" | 2.89 | 2.75 | 2.49 |

* Manufacturer: Adam Tech

141 Series 20A (6-32 x 1/4" BH screws)

- 5000-watts/terminal max.
- 14 AWG wire max.
- Size: 1.13"W x 0.5"H



| Part No. | Mfr. P/N | Pos. | Length | 1 | 10 | 100 |
|----------|----------|------|--------|--------|--------|--------|
| 2100021 | 3-141* | 3 | 1.78" | \$1.09 | \$0.89 | \$0.79 |
| 231394 | 6-141 | 6 | 3.38" | 3.49 | 3.25 | 2.95 |
| 231415 | 8-141 | 8 | 4.25" | 3.95 | 3.59 | 3.25 |
| 231431 | 10-141 | 10 | 5.13" | 4.95 | 4.59 | 4.25 |

* Manufacturer: Arndt

142 Series 30A (8-32 x 5/16" BH screws)

- 7500-watts/terminal max.
- 10 AWG wire max.
- Size: 1.312"W x 0.625"H



| Part No. | Mfr. P/N | Pos. | Length | 1 | 10 | 100 |
|----------|----------|------|--------|--------|--------|--------|
| 440891 | 42 | 8 | 5.47" | \$7.95 | \$7.19 | \$6.49 |

Terminal Block Jumpers

For connecting between adjacent terminals or alternate terminals.



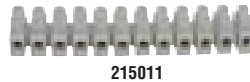
- 2-position
- Brass w/ nickel plating

| Part No. | Mfr. P/N | 1 | 10 | 100 |
|----------|---------------------|--------|--------|--------|
| 659382 | 140J-1 (140 series) | \$0.39 | \$0.35 | \$0.29 |
| 448500 | 141J (141 series) | .39 | .35 | .29 |



European Terminal Blocks

- Number of poles: 12
- Terminal insert: brass metal alloy, nickel plated
- Material: polyamide 66 (nylon 66), UL94V-2, natural
- Screws: zinc plated, yellow chromed, PA8 (M2.6), PA10, ES08, ES10 (M3.0), PA12 (3.5)



* Web Code: CBJ

| Part No. | Product No. | Amps | AWG | 1 | 10 | 100 |
|----------|---------------|------|-------|--------|--------|--------|
| 2259260 | ES0800/12DSFB | \$10 | 16-20 | \$1.49 | \$1.25 | \$1.09 |
| 2120170 | ES1000/12DS* | \$20 | 16-20 | 2.09 | 1.89 | 1.69 |
| 215011 | PA7DS† | 20 | 12-22 | 1.95 | 1.75 | 1.59 |
| 215029 | PA9DS† | 30 | 10-22 | 2.49 | 2.35 | 2.05 |
| 215037 | PA12HDS† | 35 | 10-22 | 3.09 | 2.79 | 2.49 |

* 300V † Mfr.: On-Shore Technology ‡ 450V

BEAU Barrier Single and Double Row Terminal Blocks

.375" Double Row Low Profile

* Web Code: YBM

- Wire AWG range: 12-24AWG
- Terminal: brass, nickel plated
- Insulator: thermoplastic, UL94V-0
- Screws: #6-32 BH screws, steel, zinc chromate plate



| Part No. | Mfr. Part No. | Rows | Pos. | 1 | 10 | 100 |
|----------|---------------|------|------|--------|--------|--------|
| 797849 | 38720-6305 | 1 | 5 | \$2.49 | \$2.25 | \$1.75 |
| 659411 | 38770-0104 | 2 | 4 | 2.95 | 2.65 | 2.39 |
| 659454 | 38770-0108 | 2 | 8 | 3.49 | 3.19 | 2.75 |



Metric Tri-Barrier Single Row Terminal Blocks

- Off center PC mount
- Brass, tin-plated terminals
- Steel, nickel-plated screws
- UL/CSA recognized

* Web Code: YBT

DT39 Series

- Current rating: 20A @ 300V
- Wire gauge range: 12-22 AWG
- M3 screw size
- Pitch: 8.25mm
- Height: 12.7mm



DT39 Series

HB95 Series

- Current rating: 10A @ 250V
- Wire gauge range: 14-22 AWG
- M3.5 screw size
- Pitch: 9.5mm
- Height: 14.3mm



HB95 Series

| Part No. | Cross Ref. | Pos. | Lgth (mm) | 1 | 10 | 100 |
|----------|--------------|------|-----------|--------|--------|--------|
| 2133616 | DT39-B01W-06 | 6 | 50.6 | \$0.39 | \$0.29 | \$0.25 |
| 2133624 | DT39-B01W-08 | 8 | 67.2 | .59 | .49 | .39 |
| 2162628 | HB951-08P | 8 | 77.5 | .49 | .39 | .29 |



Metric Double Row Terminal Blocks



- Body: black thermoplastic (UL94V-0)
- Terminals: brass tin plated
- Screws: steel nickel plated
- 12-18 AWG

* Web Code: YBT

10A @ 600V

- Screw size: M3.0
- Size: 19.5mm W x 11.9mm H



207572

| Part No. | Cross Ref. | Pos. | Lgth (mm) | 1 | 10 | 100 |
|----------|------------|------|-----------|--------|--------|--------|
| 208857 | GGE-10-4P | 4 | 55 | \$1.09 | \$0.99 | \$0.89 |
| 208865 | GGE-10-6P | 6 | 74 | 1.59 | 1.45 | 1.25 |
| 208900 | GGE-10-10P | 10 | 112 | 2.49 | 2.25 | 2.09 |
| 208882 | GGE-10-12P | 12 | 131 | 2.75 | 2.49 | 2.25 |

20A @ 600V

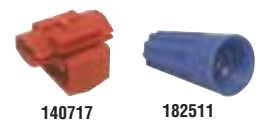
- Screw size: M3.5
- Size: 22.0mm W x 13.2mm H

| Part No. | Cross Ref. | Pos. | Lgth (mm) | 1 | 10 | 100 |
|----------|------------|------|-----------|--------|--------|--------|
| 207572 | GGE-20-12P | 12 | 150.7 | \$3.09 | \$2.79 | \$2.49 |



Wire Connectors

- UL approved nylon 66, 94V2
- Strip wire before application
- Twist on type



Order in multiples of 10

| Part No. | Description | 10 | 100 | 1000 |
|----------|----------------------|--------|--------|--------|
| 140717 | 3-wire IDC 22-18 AWG | \$0.15 | \$0.12 | \$0.09 |
| 2239154 | 3-wire IDC 18-14 AWG | .19 | .15 | .12 |
| 182511 | Wire nut 16 AWG | .12 | .09 | .07 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Terminal Blocks

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



0.138" (3.5mm) to 0.200" (5.08mm) Terminal Blocks

| Part No. | Mfr. | Mfr. Part No. | Fig. | Term. | Terminal Spacing | Description | 1 | 10 | 100 |
|----------|---------|---------------|------|-------|------------------|-----------------|------|------|------|
| 2094506 | OST | OSTTE020161 | 1 | 2 | 0.138"/3.5mm | Top screw | .35 | .29 | .25 |
| 2094522 | OST | OSTTF020161 | 2 | 2 | 0.138"/3.5mm | Side screw | .35 | .29 | .25 |
| 2094514 | OST | OSTTE030161 | 1 | 3 | 0.138"/3.5mm | Top screw | .55 | .49 | .45 |
| 2124411 | OST | OSTTE040161 | 1 | 4 | 0.138"/3.5mm | Top screw | .59 | .55 | .49 |
| 2094565 | OST | OSTTJ0231530 | 4 | 2 | 0.150"/3.81mm | R/A screw | .49 | .45 | .39 |
| 2094485 | OST | OSTTA020161 | 5 | 2 | 0.197"/5.0mm | Top screw | .39 | .35 | .29 |
| 160785 | Dinkler | EK500V-02P | 6 | 2 | 0.197"/5.0mm | Top screw | .59 | .55 | .49 |
| 164794 | OST | OSTTH020160 | 3 | 2 | 0.197"/5.0mm | Top screw | .55 | .49 | .45 |
| 99427 | Dinkler | 128V2P-R | 7 | 2 | 0.197"/5.0mm | Top screw | .65 | .45 | .39 |
| 189676 | OST | OSTTC020162 | 8 | 2 | 0.197"/5.0mm | Top screw | .45 | .35 | .29 |
| 161067 | Dinkler | EK500A-02P | 9 | 2 | 0.197"/5.0mm | 45° angle screw | .75 | .55 | .49 |
| 2159656 | Phoenix | SMKDSN1.5/2 | 14 | 2 | 0.197"/5.0mm | 55° angle screw | .29 | .19 | .12 |
| 2094493 | OST | OSTTA030161 | 5 | 3 | 0.197"/5.0mm | Top screw | .45 | .39 | .35 |
| 189668 | OST | OSTTC030162 | 10 | 3 | 0.197"/5.0mm | Top screw | .45 | .39 | .35 |
| 99398 | Dinkler | DT128V3P | 7 | 3 | 0.197"/5.0mm | Top screw | .95 | .85 | .75 |
| 160793 | Dinkler | EK500V-03P | 6 | 3 | 0.197"/5.0mm | Top screw | .79 | .69 | .59 |
| 164806 | OST | OSTTH030160 | 3 | 3 | 0.197"/5.0mm | Top screw | .75 | .59 | .55 |
| 161059 | Dinkler | EK500A-03P | 9 | 3 | 0.197"/5.0mm | 45° angle screw | 1.09 | .99 | .89 |
| 2124429 | OST | OSTTA040161 | 5 | 4 | 0.197"/5.0mm | Top screw | .69 | .65 | .55 |
| 2124470 | OST | DT128V4P-R | 7 | 4 | 0.197"/5.0mm | Top screw | .65 | .55 | .45 |
| 164815 | OST | OSTOP240000 | 13 | 24 | 0.197"/5.0mm | 1.3 x 1.3mm | 1.39 | 1.25 | 1.09 |
| 2120567 | OST | OSTYC022150 | 6 | 2 | 0.200"/5.08mm | Top screw | .55 | .49 | .39 |
| 2120647 | OST | OSTTC022162 | 1 | 2 | 0.200"/5.08mm | Top screw | .39 | .38 | .25 |
| 2094581 | OST | OSTTJ025153 | 11 | 2 | 0.200"/5.08mm | Top screw | .65 | .59 | .55 |
| 152347 | OST | OSTTA024163 | 12 | 2 | 0.200"/5.08mm | Top screw | .45 | .39 | .29 |
| 2120575 | OST | OSTYC032150 | 6 | 3 | 0.200"/5.08mm | Top screw | .55 | .49 | .39 |
| 2120655 | OST | OSTTC032162 | 1 | 3 | 0.200"/5.08mm | Top screw | .49 | .45 | .39 |
| 152355 | OST | OSTTA034163 | 12 | 3 | 0.200"/5.08mm | Top screw | .65 | .59 | .49 |
| 2094590 | OST | OSTTJ035153 | 11 | 3 | 0.200"/5.08mm | Top screw | .99 | .89 | .79 |
| 2229685 | Augat | 332520004 | 11 | 4 | 0.200"/5.08mm | Top screw | .89 | .79 | .69 |
| 2124445 | OST | OSTTA044163 | 12 | 4 | 0.200"/5.08mm | Top screw | .75 | .69 | .65 |



★ Web Code: XBD



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13 (use w/ Fig. 6)



Fig. 14

DIN Rail-Mounted Terminal Block & DIN Rail

- Molded thermoplastic
- 12-22 AWG
- Spacing: 5.06mm (.199")
- UL rated voltage and current: 600V @ 20A



| Part No. | Mfr. Part No. | Type | 1 | 10 | 100 |
|----------|---------------|------------|------|------|------|
| 237083 | 41296.2 | SR2.5 | .75 | .59 | .55 |
| 248736 | 2094.0(IM) | TS35 x 7.5 | 8.95 | 7.95 | 6.95 |

JAMECO ValuePro

UL1007 & UL1569 Rated Hook-Up Wire

★ Web Code: JAS

Make wiring simple with these small gauge wire rolls. They're able to handle high voltages while fitting and mounting easily into your terminal block slots. Applications: Interconnection circuits, wiring of computer and data processing equipment, applications and automotive.

- 300V peak
- PVC insulation
- Stranded
- Sold in 100' rolls
- VW-1
- Tin-plated copper
- Temp. range: -40°C to 80°C (UL1007); -40°C to 105°C (UL1569)

Appliance Wiring Material (AWM) is UL recognized covering of insulated wire & cable intended for internal wiring of appliances & equipment.



| AWG | Stranding | UL1007 | UL1569 | Black P/N | Red P/N | White P/N | Green P/N | Yellow P/N | Blue P/N | 1 | 5 | 10 |
|-----|-----------|--------|--------|-----------|---------|-----------|-----------|------------|----------|--------|--------|--------|
| 28 | 7 x 36 | x | x | 734611 | 734603 | 734610 | 734606 | 734605 | 734614 | \$5.95 | \$5.49 | \$4.95 |
| 26 | 7 x 34 | x | x | 734511 | 734503 | 734510 | 734506 | 734505 | 734514 | 6.95 | 5.95 | 5.49 |
| 24 | 7 x 32 | x | x | 734411 | 734403 | 734410 | 734406 | 734405 | 734414 | 7.49 | 6.75 | 5.95 |
| 22 | 7 x 30 | x | | 126085 | 126034 | 126077 | 310852 | 310878 | 310886 | 8.49 | 7.49 | 6.75 |
| 22 | 7 x 30 | x | x | 734311 | 734303 | 734310 | 734306 | 734305 | 734314 | 8.95 | 7.95 | 6.25 |
| 20 | 10 x 30 | x | | 125840 | 125795 | 125831 | 310894 | 310915 | 310922 | 11.49 | 10.49 | 9.49 |
| 20 | 10 x 30 | x | x | 734211 | 734203 | 734210 | 734206 | 734205 | 734214 | 12.95 | 11.95 | 10.95 |
| 18 | 16 x 30 | x | | 125787 | 125736 | 125752 | 310932 | 310949 | 310958 | 14.49 | 12.95 | 11.49 |
| 18 | 16 x 30 | x | x | 734111 | 734103 | 734110 | 734106 | 734105 | 734114 | 14.95 | 13.49 | 11.95 |
| 16 | 26 x 30 | x | x | 734011 | 734003 | 734010 | 734006 | 734005 | 734014 | 16.95 | 15.25 | 13.95 |

GREAT DEALS ON SPECIAL BUY CONNECTORS

| Part No. | Description | Price |
|----------|---------------------------------------|-------|
| 2192667 | 5-pin standard right angle | .75 |
| | DIN PC mount socket | |
| 2201973 | 2.1mm power plug to 11" | 1.15 |
| | 24 AWG pigtail | |
| 2200701 | 36 position dual row tin | .79 |
| | straight male header .10" (2.54mm) | |
| 2205528 | 10 position dual row gold slotted | 2.75 |
| | head solder tail header .10" (2.54mm) | |
| 2178620 | 4-PIN standard DIN cord plug | .49 |
| | cable mount locking connector | |
| 2179729 | 3 position male AC 6A @ 250V | .29 |
| | solder eyelet receptacle | |
| 2218134 | 26 position blue latch IDC connector | 1.49 |
| | receptacle Beryllium copper | |
| 2100347 | 12 pin machine tooled strip solder | .49 |
| | tail .10" (2.54mm) SIP socket | |

TOP SELLING BATTERY HOLDERS

| Part No. | Cross Ref. No. | Fig. | No. of Cells | Conn. (L") | Sides | Features* | 1 | 10 | 100 | 500 |
|----------|----------------|------|--------------|------------|--------|---------------------|--------|--------|--------|--------|
| 216081 | BH-321-2A | 1 | 2-AA | Wires, 5.5 | Single | 26 AWG | \$.89 | \$.79 | \$.69 | \$.59 |
| 216120 | SBH-321-1AS* | 2 | 2-AA | Wires, 5.5 | Single | w/ cover&sw, 26 AWG | 2.19 | 1.95 | 1.75 | 1.49 |
| 216144 | SBH-331-AS* | 3 | 3-AA | Wires, 6.0 | Single | w/ cover&sw, 26 AWG | 1.65 | 1.45 | 1.25 | 1.15 |
| 216187 | SBH-341-1AS* | 4 | 4-AA | Wires, 6.0 | Single | w/ cover&sw, 26 AWG | 2.49 | 2.25 | 1.95 | 1.75 |
| 2128067 | SBH-9VAS* | 2 | 1-9V | Wires, 5.5 | Single | w/ cover&sw, 26 AWG | 1.69 | 1.49 | 1.35 | 1.19 |
| 109154 | BC6-R | 5 | 1-9V | Wires, 5.5 | Single | 26 AWG, snaps | .49 | .39 | .35 | .29 |

* SW = switch



ReliaPro



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Terminals, Splices and Quick Connect/Disconnect

JAMECO ValuePro

★ Web Code: TSQ



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14



Fig. 15



Fig. 16

Ring Tongue Terminals

* Order in multiples of 10

| Part No. | Mfr. | Product No. | Fig. | Insul. | Stud Size | AWG | Color | 1 | 10 | 100 |
|----------|----------|-------------|------|----------|-----------|-------|------------|-----|--------|--------|
| 103684 | ValuePro | 2048 | 2 | Plastic | #6 | 22-16 | Red | ★ | \$.21 | \$.17 |
| 302666 | AMP | 36152 | 2 | Plastic | #6 | 22-16 | Red | .29 | .25 | .19 |
| 302674 | AMP | 31890 | 2 | Plastic | #8 | 22-16 | Red | .19 | .15 | .15 |
| 844289 | AMP | 34107 | 3 | Uninsul. | #6 | 22-16 | — | .25 | .19 | .15 |
| 302720 | AMP | 320619 | 1 | Nylon | #6 | 16-14 | Blue | ★ | .19 | .15 |
| 2160569 | ValuePro | 320565VP | 2 | Nylon | #8 | 16-14 | Blue | ★ | .19 | .15 |
| 302738 | AMP | 320565 | 2 | Nylon | #8 | 16-14 | Blue | .29 | .25 | .19 |
| 2160606 | ValuePro | 321045VP | 1 | Nylon | #1/4 | 16-14 | Blue | .25 | .07 | .05 |
| 2144681 | Panduit | PV10-8R-D | 2 | Vinyl | #8 | 12-10 | Yellow .. | ★ | .09 | .07 |

Spade Tongue Terminals

* Order in multiples of 10

| Part No. | Mfr. | Product No. | Fig. | Insul. | Stud Size | AWG | Color | 1 | 10 | 100 |
|----------|----------|--------------|------|----------|-----------|-------|-------------|--------|--------|--------|
| 302851 | AMP | 328394 | 4 | Nylon | #2 | 22-16 | Red | \$.25 | \$.19 | \$.15 |
| 2160577 | ValuePro | 34541VP | 4 | Nylon | #6 | 22-16 | Red | ★ | .15 | .13 |
| 302877 | AMP | 34541 | 4 | Nylon | #6 | 22-16 | Red | .25 | .22 | .19 |
| 103588 | ValuePro | SVS1-3.7 | 4 | Vinyl | #6 | 22-16 | Red | ★ | .19 | .15 |
| 2160631 | ValuePro | 323127VP | 5 | Uninsul. | #6 | 22-16 | — | ★ | .12 | .09 |
| 842929 | AMP | 323127 | 5 | Uninsul. | #6 | 22-16 | — | ★ | .19 | .15 |
| 502879 | Molex | 19144-0001 | 6 | PVC | #5-6 | 18-22 | Red | ★ | .19 | .15 |
| 2160585 | ValuePro | 35559VP | 4 | Nylon | #6 | 16-14 | Blue | ★ | .19 | .15 |
| 302906 | AMP | 35559 | 4 | Nylon | #6 | 16-14 | Blue | .22 | .17 | .15 |
| 103596 | ValuePro | SVM-2 | 4 | Vinyl | #8 | 16-14 | Blue | ★ | .15 | .12 |
| 302949 | AMP | 326859 | 4 | Nylon | #6 | 12-10 | Yellow .. | .35 | .29 | .25 |
| 2231881 | Panduit | PV10-10LFB4† | 4 | Vinyl | #10 | 12-10 | Yellow | ★ | .29 | .25 |

† Reel

Solderless Terminal Kit

- Clear, hinged plastic box
- Use crimping tool P/N 72996, right

170 Terminals and Connectors!



| Qty. | Description | Wire Gauge | Blade Size | Qty. | Description | Wire Gauge | Blade Size |
|------|---------------|------------|------------|------|----------------|------------|------------|
| 10 | Male spade | 22-16 | 1/4" | 10 | Ring terminal | 16-14 | #10 |
| 10 | Male spade | 16-14 | 1/4" | 5 | Ring terminal | 12-10 | #10 |
| 10 | Female spade | 22-16 | 1/4" | 5 | Ring terminal | 12-10 | #14 |
| 10 | Female spade | 16-14 | 1/4" | 10 | Spade terminal | 16-22 | #6 |
| 10 | Ring terminal | 22-16 | #6 | 10 | Spade terminal | 16-22 | #8 |
| 10 | Ring terminal | 22-16 | #8 | 10 | Spade terminal | 16-14 | #10 |
| 10 | Ring terminal | 16-14 | #10 | 10 | Butt connect | 16-22 | — |
| 15 | Ring terminal | 16-14 | #6 | 10 | Butt connect | 16-14 | — |
| 10 | Ring terminal | 16-14 | #8 | 5 | Butt connect | 12-10 | — |

| Part No. | Cross Ref. No. | Description | 1 | 10 | 25 |
|----------|----------------|-------------------------------|---------|---------|---------|
| 10990 | G1C175-R | Solderless terminal kit | \$15.95 | \$13.95 | \$12.49 |

See page 120 for crimping hand tools

Butt Disconnect Splices

* Order in multiples of 10

| Part No. | Mfr. | Product No. | Fig. | Insul. | Type | AWG | Color | 1 | 10 | 100 |
|----------|-------|-------------|------|----------|------|-------|------------|--------|--------|--------|
| 303167 | AMP | 323994 | 7 | Nylon | Butt | 24-20 | Natural | \$.55 | \$.49 | \$.45 |
| 303175 | AMP | 320559 | 7 | Nylon | Butt | 22-16 | Red | .55 | .49 | .45 |
| 494469 | Molex | 19215-0009 | 8 | Uninsul. | Butt | 22-18 | — | * | .09 | .07 |
| 503062 | Molex | 19154-0004 | 7 | PVC | Butt | 18-22 | Red | * | .15 | .12 |
| 303183 | AMP | 320562 | 7 | Nylon | Butt | 16-14 | Blue | .55 | .49 | .45 |

Quick Connect/Disconnect Female Terminals

* Order in multiples of 10

| Part No. | Mfr. | Product No. | Fig. | Insul. | Size (ins.) | AWG | Color | 1 | 10 | 100 |
|----------|----------|-------------|------|--------|-------------|-------|-----------|--------|--------|--------|
| 303247 | AMP | 640923-1 | 9 | Nylon | .110 x .020 | 22-18 | Red .. | \$.29 | \$.25 | \$.19 |
| 489635 | Molex | 19003-0011* | 10 | Nylon | .187 x .020 | 22-18 | Red | ★ | .19 | .15 |
| 489643 | Molex | 19003-0017* | 10 | Nylon | .187 x .032 | 22-18 | Red | .29 | .25 | .19 |
| 524197 | AMP | 2-520182-2 | 12 | Nylon | .187 x .020 | 22-18 | Red | ★ | .19 | .15 |
| 303280 | AMP | 640903-1 | 9 | Nylon | .250 x .032 | 22-18 | Red | .27 | .23 | .20 |
| 489627 | Molex | 19003-0001* | 10 | Nylon | .250 x .032 | 22-18 | Red | ★ | .19 | .15 |
| 489475 | Molex | 19002-0001 | 11 | Nylon | .250 x .032 | 22-18 | Red | .29 | .25 | .19 |
| 489758 | Molex | 19005-0001 | 12 | Nylon | .250 x .032 | 22-18 | Red | .25 | .19 | .15 |
| 2121551 | ValuePro | QCD187 | 13 | Nylon | .187 x .032 | 22-16 | Clear .. | .25 | .09 | .07 |
| 106922 | ValuePro | FDV1-187 | 9 | Vinyl | .187 x .032 | 22-16 | Red | ★ | .12 | .09 |
| 109112 | ValuePro | GFF1250 | 14 | Vinyl | .250 x .032 | 22-16 | Red | ★ | .15 | .12 |
| 103668 | ValuePro | FDV1-250 | 9 | Vinyl | .250 x .032 | 22-16 | Red | ★ | .19 | .15 |
| 489694 | Molex | 19003-0050* | 10 | Nylon | .187 x .020 | 16-14 | Blue ... | .25 | .15 | .12 |
| 303327 | AMP | 640905-1 | 9 | Nylon | .250 x .032 | 16-14 | Blue ... | .29 | .25 | .22 |
| 489766 | Molex | 19005-0005 | 10 | Nylon | .250 x .032 | 16-14 | Blue ... | .29 | .25 | .19 |
| 489678 | Molex | 19003-0040* | 10 | Nylon | .250 x .032 | 16-14 | Blue ... | ★ | .19 | .15 |
| 489871 | Molex | 19007-0021* | 15 | Nylon | .250 x .032 | 16-14 | Blue ... | .29 | .25 | .19 |
| 489774 | Molex | 19005-0010 | 10 | Nylon | .250 x .032 | 10-12 | Yellow | .45 | .39 | .35 |

* Translucent

Quick Connect/Disconnect Male Terminals Insulated

| Part No. | Mfr. | Mfr. Part No. | Fig. | Insul. | Size (ins.) | AWG | Color | 1 | 10 | 100 |
|----------|-------|---------------|------|--------|-------------|-------|-----------|--------|--------|--------|
| 489432 | Molex | 19001-0003 | 11 | Nylon | .187 x .020 | 22-18 | Red .. | \$.29 | \$.25 | \$.22 |
| 489723 | Molex | 19004-0001 | 11 | Nylon | .250 x .032 | 22-18 | Red | .25 | .19 | .15 |
| 489731 | Molex | 19004-0005 | 11 | Nylon | .250 x .032 | 16-14 | Blue ... | .35 | .29 | .25 |

Printer Circuit Board Male Quick Connect

Order in multiples of 10

| Part No. | Mfr. | Product No. | Fig. | Material | Size (ins.) | 10 | 100 | 500 |
|----------|------|-------------|------|------------|-------------------|--------|--------|--------|
| 2150897 | AMP | 1217056-1* | 16 | Tin/Copper | .250 x .032 | \$.09 | \$.07 | \$.05 |

* Single



Solderless Terminal Crimping Tool

- Crimps solderless terminals: 18-22 AWG red, 14-16 AWG blue and 10-12 AWG yellow



| Part No. | Mfr. Part No. | Size | 1 | 10 | 25 |
|----------|---------------|---------------------|---------|---------|---------|
| 72996 | HT303 | 9.0"L x 2.0"W | \$25.95 | \$22.95 | \$18.95 |

BEST SELLING CABLE

| Part No. | Manufacturer | Mfr. Part No. | Description | Price |
|----------|--------------|---------------|---|---------|
| 644818 | ValuePro | RG174/U-100 | 26 AWG 1 conductor coax cable, 100 feet stranded, RG174/U, 50Ω | \$19.95 |
| 644421 | ValuePro | SC9-100 | 24 AWG 5 conductor cable, 100 feet shielded, .190 inch OD., 24 AWG drain wire | 44.95 |
| 734180 | Belden | 8723 060100 | 22 AWG 4 conductor cable, 100 feet shielded, .016 inch OD, 24 AWG drain wire | 59.95 |
| 2119494 | ValuePro | 5411-100 | 22 AWG 5 conductor cable, 100 feet unshielded, .019 inch OD, no drain wire | 44.95 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
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Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Basic & Slide Switches

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



OMRON



Super and Subminiature Basic Switches

* Web Code: MBE

- Economical, subminiature basic switch offers long service life
- Free from overtravel restrictions, permits easy setting
- Lead spacing: A = 0.35"; B = 0.29"
- Dimensions: 0.78"L x 0.25"W x 0.40"H

NEW
MARKED IN PINK



Fig. 1



Fig. 2



Fig. 3



Fig. 4

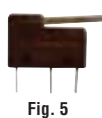


Fig. 5



Fig. 6



Fig. 7

| Part No. | Manufacturer | Mfr. Part No. | Fig. | Contact Form | Contact Rating | Actuator Type | Service Life (Mech./Elec.) | Terminal Type | Pricing | | |
|----------|-----------------|------------------|------|--------------|----------------------------|------------------------|----------------------------|---------------------|---------|--------|--------|
| | | | | | | | | | 1 | 10 | 100 |
| 2204015 | ValuePro | BSM2-0508-13 | 5 | SPST | 5A @ 250VAC, 5A @ 30VDC | Straight lever (1.31") | 1M/30k | .110" quick connect | \$1.19 | \$1.09 | \$.99 |
| 2231056 | Omron | D2FW-G073M | 6 | SPST-NO | 1mA @ 5VDC | Leaf lever | 300k/100k | Lead wires | 6.95 | 5.95 | 4.95 |
| 188867 | Omron | D2F-L | 1 | SPDT-NC | 3A @ 125VAC, 2A @ 30VDC | Hinge lever (0.5"L) | 1M/30k | Solder terminal | 1.59 | 1.49 | 1.39 |
| 2187892 | ValuePro | DM3-01P-30-6 | 1 | SPDT-NC | 3A @ 125VAC, 2A @ 30VDC | Hinge lever (0.5"L) | 1M/300k | Solder terminal | .55 | .45 | .35 |
| 2187913 | ValuePro | SM5-01N-40-C51 | 2 | SPDT-NC | 5A @ 125VAC, 3A @ 250VAC | Hinge lever (0.6"L) | 30M/200k | Solder terminal | .85 | .75 | .65 |
| 187709 | Omron | SS-5GL | 2 | SPDT-NC | 5A @ 125VAC, 3A @ 250VAC | Hinge lever (0.6"L) | 30M/200k | Solder terminal | 1.49 | 1.39 | 1.29 |
| 2187905 | ValuePro | SM5-05N-45S-C51 | 3 | SPDT-NC | 5A @ 125VAC, 3A @ 250VAC | Hinge roller (0.6"L) | 30M/200k | Solder terminal | .99 | .89 | .79 |
| 187733 | Omron | SS-5GL2 | 3 | SPDT-NC | 5A @ 125VAC, 3A @ 250VAC | Hinge roller (0.6"L) | 30M/200k | Solder terminal | 1.99 | 1.79 | 1.65 |
| 159599 | Highly Electric | SS0505A | 3 | SPDT-NC | 5A @ 125VAC, 3A @ 250VAC | Hinge roller (0.7"L) | 30M/200k | Solder terminal | 1.35 | 1.19 | 1.05 |
| 187717 | Omron | SS-5GL13 | 4 | SPDT-NC | 5A @ 125VAC, 3A @ 250VAC | Simulated roller lever | 30M/200k | Solder terminal | 1.25 | .99 | .89 |
| 2097678 | Mountain Switch | 61-05-025RR-Q-EV | 3 | SPDT-NC | 5A @ 125VAC, 5A @ 250VAC | Roller lever (0.571"L) | 10M/100k | .110" quick connect | 1.25 | 1.09 | .89 |
| 2231064 | Microswitch | BZ-2RQ1-A2 | 7 | SPDT-NC-NO | 15A @ 125VAC, 15A @ 250VAC | Overtravel plunger | 20M/— | Screw | 10.95 | 9.95 | 8.95 |

OMRON

Honeywell



Miniature Basic Switches

* Large Basic Switches — Enter Web Code RBS



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

- 3 terminals: common; normally open; normally closed
- Size: 1.10"L x 0.40"W x 0.63"H

* Web Code: UEM

| Part No. | Manufacturer | Product No. | Fig. | Contact Form | Contact Rating | Actuator Type | Service Life (Mech./Elec.) | Terminal Type | Pricing | | |
|----------|-----------------|---------------|------|--------------|-----------------------------|---------------------------|----------------------------|----------------------|---------|--------|--------|
| | | | | | | | | | 1 | 10 | 100 |
| 2076244 | Honeywell | V3-23-D8 | 2 | SPST-NO | 5A @ 125VAC | Pin plunger | 50M/300k | 0.183" quick connect | \$1.25 | \$.99 | \$.89 |
| 2178937 | Zero Plus | 1033013 | 2 | SPST-NO | 15A @ 250VAC | Pin plunger | 10M/100k | 0.250" quick connect | .59 | .49 | .39 |
| 2162804 | Mulon | M8-1P1 | 3 | SPDT | 5A @ 250VAC | Pin plunger | 10M/1M | 0.250" quick connect | .59 | .49 | .39 |
| 187792 | Omron | V-10G2-1C24K | 4 | SPDT-NC | 0.1A @ 125VDC, 10A @ 250VAC | Hinge lever (1.08"L) | 50M/300k | 0.183" quick connect | 2.69 | 2.39 | 2.15 |
| 187805 | Omron | V-10G3-1C24K | 1 | SPDT-NC | 0.1A @ 125VDC, 10A @ 250VAC | Long hinge lever (2.01"L) | 50M/300k | 0.183" quick connect | 2.95 | 2.59 | 2.29 |
| 2117333 | ValuePro | VM-05S-03D0-Z | 1 | SPDT-NC | 5A @ 125VAC/250VAC | Long lever (2.0"L) | 50M/300k | 0.185" quick connect | 1.75 | 1.49 | 1.25 |
| 2178929 | Mulon | M8-1P1DS1 | 4 | SPDT-NC | 5A @ 250VAC | Short lever (0.6"L) | 50M/300k | 0.250" quick connect | .75 | .65 | .55 |
| 159572 | Highly Electric | VS10N051C | 5 | SPDT-NC | 10A @ 125VAC/250VAC | Hinge roller (0.60"L) | 10M/100k | 0.250" quick connect | 1.95 | 1.75 | 1.49 |
| 159581 | Highly Electric | VS10N021C2 | 4 | SPDT-NC | 10A @ 125VAC/250VAC | Hinge lever (1.05"L) | 10M/100k | 0.183" quick connect | 1.99 | 1.79 | 1.55 |
| 2210950 | Omron | V-16G-1C25 | 3 | SPDT-NC | 10A @ 250VDC, 16A @ 250VAC | Pin plunger | 50M/100k | 0.187" quick connect | 1.09 | .89 | .79 |
| 1844281 | Microswitch | BA-2RV-A2 | 6 | SPDT-NC | 20A @ 125VAC/480VAC | Long lever (2.87"L) | 20M/100k | Screw | 6.95 | 6.25 | 5.59 |

C&K GC

Slide Switches

- Two mounting flanges
- 6/6 nylon plastic housing
- Phenolic insulated
- Nylon actual
- Top actuation



* Web Code: LAP



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

* Order in multiples of 10

| Part No. | Manufacturer | Product No. | Fig. | Pins | Contact Form | Contact Rating | Dimensions (L" x W" x D") | Lead Spacing | | Housing Material | Lead Length | Actuator Height | Pricing | | |
|----------|------------------|------------------------|------|------|-----------------|----------------------|---------------------------|--------------|-----|------------------|-------------|-----------------|---------|--------|--------|
| | | | | | | | | A" | B" | | | | 1 | 10 | 100 |
| 2182311 | Alco | SE1DGRA | 5 | 5 | SPDT on-none-on | 0.02A @ 20VDC | .37 x .31 x .20 | .20 | .10 | Plastic | .16" | .10" | \$.59 | \$.45 | \$.35 |
| 2180818 | Tyco Electronics | TSS11DG1RA | 5 | 5 | SPDT on-none-on | 0.02A @ 20VDC | .40 x .52 x .23 | .10 | .14 | Plastic | .14" | .11" | .39 | .29 | .25 |
| 588220 | C&K Switches | OS102011MA1QN1 | 1 | 3 | SPDT on-on | 0.2A @ 30VDC | .34 x .17 x .15 | — | .08 | Metal | .11" | .16" | .49 | .45 | .39 |
| 621325 | GC Electronics | 35-202-BU | 2 | 3 | SPDT on-on | 0.3A @ 30VAC | .44 x .22 x .18 | .14 | — | Metal | .14" | .16" | 2.25 | 2.09 | 1.89 |
| 2133704 | ValuePro | SS12D02 | 3 | 3 | SPDT on-on | 0.3A @ 50VDC | .35 x .18 x .18 | — | .08 | Metal | .12" | .15" | .25 | .19 | .15 |
| 2192384 | ValuePro | 3450XBB-4 | 4 | 3 | SPDT on-on | 0.3A @ 125VAC | .45 x .22 x .23 | — | .12 | Plastic | .21" | .15" | .55 | .45 | .39 |
| 2184392 | ValuePro | SV65010F-0102-6H-FN | 5 | 3 | SPDT on-on | 0.3A @ 125VAC | .63 x .26 x .41 | 0.05 | .16 | Metal | .19" | .24" | .49 | .45 | .39 |
| 2184384 | ValuePro | SS60012F-0102-4V-NB | 2 | 3 | SPDT on-on | 0.3A @ 125VAC | .75 x .21 x .35 | — | .15 | Metal | .14" | .34" | .75 | .65 | .49 |
| 2258831 | ValuePro | SS-12E17 | 9 | 3 | SPDT on-on | 0.3A @ 125VAC | .45 x .16 x .47 | — | .10 | Plastic | — | .08 | .49 | .45 | .39 |
| 109171 | ValuePro | G4050X-R | 4 | 3 | SPDT on-on | 0.5A @ 50VDC | .45 x .22 x .23 | — | .15 | Plastic | .17" | .15" | .45 | .39 | .35 |
| 2181124 | C&K Switches | S102031MS02QE | 4 | 3 | SPDT on-off | 6.0A @ 125VAC/250VAC | 1.38 x .53 x .28 | — | .25 | Plastic | .30" | .34" | .55 | .49 | .45 |
| 2209191 | CW Industries | SS-5-125V | 2 | 4 | SPDT on-off-on | 0.5A @ 125VDC | .79 x .40 x .30 | — | .17 | Metal | .21" | .45" | .35 | .29 | .25 |
| 2180771 | Alco | MHS133 | 3 | 3 | SP3T on-on-on | 0.1A @ 30VDC | .62 x .16 x .18 | — | .10 | Plastic | .13" | .08" | .25 | .15 | .12 |
| 2180771 | Alco | MHS133 | 3 | 3 | SP3T on-on-on | 0.3A @ 30VDC | .63 x .27 x .29 | — | .08 | Metal | .18" | .39" | .25 | .15 | .12 |
| 2184413 | ValuePro | SV65020F-0103-6H-01-FN | 5 | 8 | SP3T on-on-on | 0.3A @ 125VAC | .63 x .26 x .41 | .10 | .08 | Metal | .19" | .24" | .69 | .59 | .49 |
| 2182442 | Alco | AS2DG-PC | 10 | 6 | DPDT on-on | 0.2A @ 20VDC | .37 x .20 x .37 | .10 | .10 | Plastic | .14" | .11" | .25 | .19 | .17 |
| 161817 | ValuePro | MS-306-R | 6 | 6 | DPDT on-on | 0.3A @ 6VDC | .35 x .14 x .14 | .10 | .10 | Plastic | .14" | .08" | .59 | .49 | .39 |
| 621472 | GC Electronics | 35-222 | 7 | 6 | DPDT on-on | 6.0A @ 125VAC | .88 x .53 x .35 | .22 | .29 | Plastic | .25" | .36" | .99 | .89 | .79 |
| 2178591 | Switchcraft | 46206LFE* | 8 | 6 | DPDT locking | 0.5A @ 125VDC | .88 x .53 x .44 | .25 | .28 | Plastic | .17" | — | .25 | .19 | .15 |

* DPDT locking, flushed, 115/230 legend, 3A @ 125VAC

Pushbutton Switches

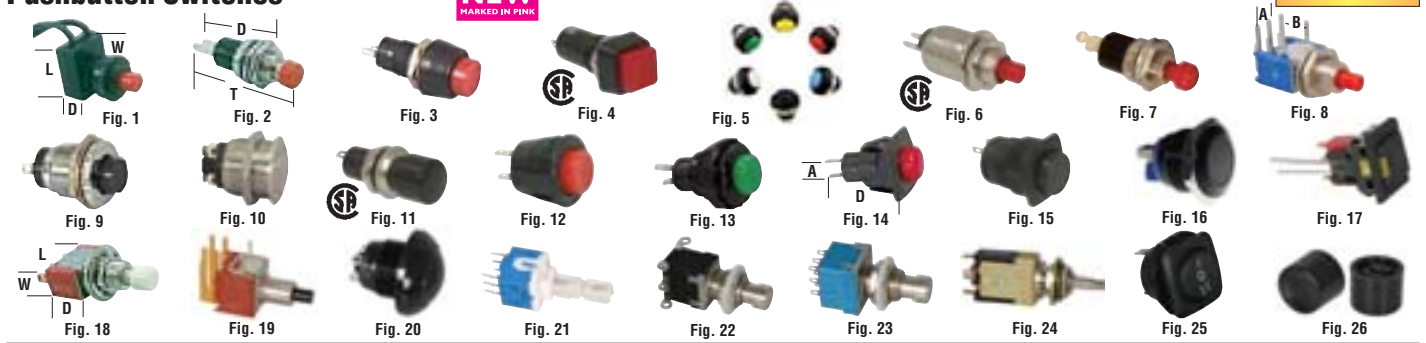


Pushbutton Switches

NEW
MARKED IN PINK

For additional Pushbutton Switches, visit Jameco.com and use Web Code

★ Web Code: UBU



| Part No. | Manufacturer | Product No. | Fig. | Pins | Contact Form () Momentary | Contact Rating | Mounting Hole Dia. | Dimension (L" x W" x D") | Lead Spacing | | Terminal Type | Button Color | Pricing | | |
|----------|-----------------|-------------------|------|------|---|----------------|-----------------------|-----------------------------|--------------|------|--------------------|-----------------|---------|--------|--------|
| | | | | | | | | | A" | B" | | | 1 | 10 | 100 |
| 22200 | Judco | J1881 | 1 | 2* | SPST on-off, Alt† | 2A @ 14VDC | .375" | .65 x .52 x .40 | .25 | — | 5" Pigtail | White | \$1.99 | \$1.79 | \$1.55 |
| 2229626 | C&K Switch | 853/5-C-Q | 7 | 2 | SPST off-(on) | 1A @ 250VAC | .250" | .23 (D) x 1.1 (T) | .21 | — | PC terminal | Black | .79 | .69 | .59 |
| 164639 | ValuePro | MS3120R | 7 | 2 | SPST off-(on) | 3A @ 125VAC | .295" | .31 (D) x 1.1 (T) | .175 | — | Solder lugs | Red | .99 | .89 | .79 |
| 2228906 | Arndt | MGPB-SPST-3A | 2 | 2 | SPST on-(off)2 | 3A @ 125VAC | .299" | .36 (D) x 1.13 (T) | — | .17 | Solder lugs | Black | .75 | .65 | .55 |
| 26649 | ValuePro | R18-29B | 2 | 2 | SPST on-(off)2 | 3A @ 125VAC | .299" | .36 (D) x 1.13 (T) | — | .17 | Solder lugs | Black | .85 | .75 | .65 |
| 164494 | ValuePro | R13-84B | 3 | 2 | SPST off-on | 3A @ 125VAC | .406" | .59 (D) x 1.2 (T) | .175 | — | Solder lugs | Red | 2.35 | 2.19 | 1.99 |
| 2228640 | ValuePro | GP9-4A-R | 11 | 2 | SPST off-on | 3A @ 125VAC | .480" | .98 (D) x 1.56 (T) | .20 | — | Solder lugs | Red | 1.65 | 1.39 | 1.25 |
| 2228631 | ValuePro | GP9-4A-K | 11 | 2 | SPST off-on | 3A @ 125VAC | .480" | .98 (D) x 1.56 (T) | .20 | — | Solder lugs | Black | 1.65 | 1.39 | 1.25 |
| 315492 | ValuePro | R13-23B-B | 4 | 2 | SPST off-on | 3A @ 125VAC | .480" | 1.13 (D) x 1.53 (T) | .20 | — | Solder lugs | Black | 1.19 | 1.09 | .99 |
| 315484 | ValuePro | R13-23B-R | 4 | 2 | SPST off-on | 3A @ 125VAC | .480" | 1.13 (D) x 1.53 (T) | .20 | — | Solder lugs | Red | .99 | .89 | .79 |
| 315521 | ValuePro | R13-23B-Y | 4 | 2 | SPST off-on | 3A @ 125VAC | .480" | 1.38 (D) x 1.53 (T) | .18 | — | Solder lugs | Yellow | 1.19 | 1.09 | .89 |
| 2217588 | Seed Studio | TEM12121B | 5 | 2 | SPST off-(on) | 1A @ 125VAC | .620" | .69 x .69 x .75 | .20 | — | Screw | Asst. | 4.49 | 3.95 | 3.59 |
| 315643 | ValuePro | R13-81-R | 6 | 2 | SPST off-(on) | 5A @ 125VAC | .203" | .44 (D) x .78 (T) | .08 | — | PC terminal | Red | .95 | .85 | .75 |
| 71643 | ValuePro | SWB210✓ | 8 | 2 | SPST off-(on) | 1A @ 120VAC | .219" | .36 x .20 x .33 | .20 | .20 | PC right angle | Black | 2.75 | 2.49 | 2.25 |
| 2238186 | ValuePro | GR18-29B | 2 | 2 | SPST off-(on)2 | 1A @ 125VAC | .250" | .65 (D) x 1.10 (T) | — | 1.4 | Solder lugs | Black | .89 | .79 | .75 |
| 2131274 | Velleman | R1400A | 10 | 2 | SPST off-(on) | 2A @ 48VDC | .750" | .87 (D) x 1.2 (T) | .37 | — | Screw | Silver | 3.59 | 3.25 | 2.95 |
| 171774 | Apem | AV191003C900 | 10 | 2 | SPST off-(on) | 2A @ 48VDC | .750" | .87 (D) x 1.2 (T) | .37 | — | Screw | Silver | 10.95 | 10.49 | 9.95 |
| 26623 | ValuePro | MS102 | 3 | 2 | SPST off-(on)2 | 3A @ 125VAC | .250" | .65 (D) x 1.10 (T) | — | .14 | Solder lugs | Red | .89 | .79 | .75 |
| 164486 | ValuePro | R13-84A | 4 | 2 | SPST off-(on)3 | 3A @ 125VAC | .406" | .59 (D) x 1.2 (T) | .175 | — | Solder lugs | Red | 1.75 | 1.59 | 1.45 |
| 315580 | ValuePro | R13-40B-B | 11 | 2 | SPST off-(on) | 3A @ 125VAC | .480" | .87 (D) x 1.4 (T) | .20 | — | Solder lugs | Black | 1.55 | 1.29 | 1.15 |
| 315599 | ValuePro | R13-40A-R | 11 | 2 | SPST off-(on) | 3A @ 125VAC | .480" | .98 (D) x 1.56 (T) | .20 | — | Solder lugs | Red | 1.39 | 1.25 | 1.09 |
| 315432 | ValuePro | R13-23A-R | 5 | 2 | SPST off-(on) | 3A @ 125VAC | .480" | 1.13 (D) x 1.53 (T) | .20 | — | Solder lugs | Red | .99 | .85 | .75 |
| 164582 | Mountain Switch | 112-R13-502MA-BLB | 9 | 2 | SPST off-(on)4 | 3A @ 125VAC | .490" | .90 (D) x 1.0 (T) | .19 | — | Solder lugs | Black | 2.75 | 2.49 | 2.25 |
| 315678 | ValuePro | R13-502A-05-BG | 13 | 2 | SPST off-(on) | 3A @ 125VAC | .500" | .82 (D) x 1.02 (T) | .20 | — | Solder lugs | Green | 1.79 | 1.55 | 1.29 |
| 315660 | ValuePro | R13-502A-05-BR | 13 | 2 | SPST off-(on) | 3A @ 125VAC | .500" | .82 (D) x 1.02 (T) | .22 | — | Solder lugs | Red | 1.49 | 1.35 | 1.19 |
| 315651 | ValuePro | R13-502A-05-BB | 13 | 2 | SPST off-(on) | 3A @ 125VAC | .500" | .82 (D) x 1.02 (T) | .23 | — | Solder lugs | Black | 1.95 | 1.75 | 1.49 |
| 174414 | ValuePro | R13-510A | 14 | 2 | SPST off-(on) | 3A @ 125VAC | .500" | .82 (D) x 1.02 (T) | — | .167 | Solder lugs | Red | .99 | .89 | .79 |
| 315820 | ValuePro | R13-508AL-05-BRR | 15 | 4 | SPST off-(on) | 3A @ 125VAC | .630" | .93 (D) x 1.14 (T) | .21 | .25 | Solder w/ LED | Red | 2.55 | 2.29 | 1.99 |
| 315791 | ValuePro | R13-508A-05-BB | 15 | 2 | SPST off-(on) | 3A @ 125VAC | .630" | .94 (D) x 1.16 (T) | .24 | — | Solder lugs | Black | 1.49 | 1.35 | 1.19 |
| 106112 | Mountain Switch | DS-412-RED | 12 | 2 | SPST off-(on) | 3A @ 125VAC | .734" | .66 (D) x .63 (T) | .275 | — | Solder lugs | Red | 1.75 | 1.59 | 1.35 |
| 2217553 | Seed Studio | TEM12123B | 16 | 2 | SPST off-(on) | 3A @ 250VAC | .620" | .70 x .70 x .90 | .20 | — | Solder lugs | Black | 4.49 | 3.95 | 3.59 |
| 2217570 | Seed Studio | TEM12127B | 16 | 2 | SPST off-(on) | 3A @ 250VAC | .620" | .70 x .70 x .90 | .20 | — | Solder lugs | Blue | 4.49 | 3.95 | 3.59 |
| 2217561 | Seed Studio | TEM12125B | 16 | 2 | SPST off-(on) | 3A @ 250VAC | .620" | .70 x .70 x .90 | .20 | — | Solder lugs | Red | 4.49 | 3.95 | 3.59 |
| 22218 | Judco | J1882 | 1 | 2* | SPST off-(on) | 4A @ 14VDC | .375" | .65 x .52 x .40 | .25 | — | 5" Pigtail | Red | 1.59 | 1.35 | 1.19 |
| 2227524 | NKK | DB2511V | 18 | 3 | SPDT on-(on) | 0.14A @ 28VAC | — | .60 x .58 x .28 | .10 | — | PC right angle | Silver | 1.95 | 1.75 | 1.49 |
| 2182098 | C&K Switch | 8125J85ZBE225 | 17 | 5 | SPDT on-(on) | 1A @ 120VAC | .250" | .50 x .37 x .37 | .20 | — | Solder lugs | Black | .75 | .65 | .55 |
| 2182080 | C&K Switch | 8121J81ZGE99 | 6 | 3 | SPDT on-(on) | 1A @ 120VAC | .250" | .50 x .27 x .41 | .185 | — | Solder lugs | Gray | .75 | .65 | .55 |
| 575701 | C&K Switch | 8121SD9A2GE | 8 | 3 | SPDT on-(on) | 1A @ 120VAC | .250" | .50 x .27 x .41 | .185 | — | PC right angle | White | .75 | .65 | .55 |
| 121305 | ValuePro | GPB006-WH | 18 | 3 | SPDT on-(on)1 | 3A @ 120VAC | .250" | .52 x .27 x .38 | — | .185 | Solder lugs | White | 3.75 | 3.49 | 3.15 |
| 28063 | ValuePro | PB126 | 18 | 3 | SPDT on-(on)1 | 3A @ 120VAC | .250" | .52 x .28 x .38 | — | .185 | Solder lugs | Red | 3.59 | 3.25 | 2.95 |
| 2182101 | C&K Switch | 8168SHABE2 | 19 | 3 | SPDT on-(on) | 6A @ 120VAC | .300" | .50 x .27 x .45 | .185 | — | PC right angle | Black | 1.25 | 1.09 | .99 |
| 2209107 | C&K Switch | NP8S2D203QE | 20 | 3 | SPDT on-(off) | 5A @ 32VDC | .484" | .80 (D) x .43 (T) | .17 | .26 | Solder lugs | Black | 1.95 | 1.75 | 1.49 |
| 2215785 | C&K Switch | PVA1-OA-H1-1.2N | 21 | 6 | DPST on-(on) | 1A @ 32VDC | — | .36 x .34 x .30 | .24 | .10 | PC pin | Red | .39 | .29 | .25 |
| 594718 | C&K Switch | PVA2EEH21.7N | 21 | 6 | DPDT on-(on) | 1A @ 32VDC | — | .36 x .36 x .43 | .24 | .10 | PC pin | White | .35 | .29 | .25 |
| 2181407 | ValuePro | 01-690C | 22 | 6 | DPDT off-(on)† | 4A @ 125VAC | .472" | 1.7 x .71 x .98 | .35 | — | Solder lugs | Silver | 4.49 | 3.95 | 3.59 |
| 2181415 | ValuePro | 01-690DB-RH | 23 | 9 | 3PDT off-(on)† | 4A @ 125VAC | .472" | 1.7 x .68 x .77 | .21 | .19 | Solder lugs | Silver | 4.49 | 3.95 | 3.59 |
| 2182240 | Alco Switch | MSP105F | 24 | 3 | SPDT (on)-off-(on) | 5A @ 115VAC | .250" | .50 x .26 x .66 | — | .14 | Solder lugs | Silver | .75 | .65 | .55 |
| 2231355 | SCI | R13-135I-02 | 25 | 3 | SPDT (on)-off-(on) | 10A @ 250VAC | .80 | .90 x .90 x .57 | .27 | — | 0.187" quick conn. | Black | 1.95 | 1.75 | 1.49 |
| 2203055 | LKG | SW-CAP | 26 | | Red pushbutton switch cap, round, .30"Dia. x .30"H x .12"ID, snap fit | | | | | | | | .35 | .29 | .25 |
| 2202132 | Alcoswitch | C22004 | 26 | | Black pushbutton switch cap (for P/N 71643), round, .402"Dia x .315"H x .099"ID, snap fit | | | | | | | | .25 | .19 | .15 |
| 575591 | C&K Switch | 894102000 | 26 | | Black pushbutton switch cap, round, .395"Dia. x .325"H | | | | | | | | .25 | .19 | .15 |

* Lead wires † Alt = alternate action \$ Illuminated: red/green ✓ Use 2202132 cap Additional panel mounting hardware: 1 2182477; 2 2182688; 3 2183242; 4 2182733, see pg 78

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JAMECO ValuePro

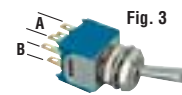
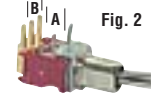
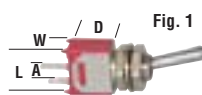
Subminiature Toggle Switches

- Mounting hole diameter: 7/32 (.21")
- Round toggle
- Thread: 10-48 UNS
- Metal construction
- Pre-tinned leads

Includes: Panel mounting hardware

Additional Toggle Switches, visit Jameco.com and use Web Code

*Web Code: NAN



| Part No. | Manufacturer | Product No. | Fig. | Pins | Contact Form () Momentary | Contact Rating | Dimensions (L" x W" x D") | Lead Spacing | | Terminal Type | Pricing | | |
|----------|---------------|-------------|------|------|---|-----------------------------|------------------------------|--------------|-----|----------------|---------|--------|--------|
| | | | | | | | | A" | B" | | 1 | 10 | 100 |
| 72161 | ValuePro | SW1501\$ | 1 | 2 | SPST on-off | 5A @ 120VAC & 1.5A @ 250VAC | .33 x .21 x .33 | .10 | — | Solder lugs | \$1.55 | \$1.39 | \$1.25 |
| 106067 | ValuePro | SWP124 | 2 | 3 | SPDT on-on | 0.4VA max. | .25 x .33 x .40 | .20 | .10 | PC right angle | 1.99 | 1.79 | 1.65 |
| 2202757 | ElectroSwitch | A123S1D9AB | 2 | 3 | SPDT on-on | 0.5VA @ 28VDC/AC | .50 x .37 x .26 | .17 | — | PC right angle | .75 | .65 | .55 |
| 75969 | ValuePro | SWM136\$ | 1 | 3 | SPDT on-on | 3A @ 125VAC & 1.5A @ 250VAC | .33 x .21 x .33 | .10 | — | Solder lugs | 1.49 | 1.35 | 1.19 |
| 75977 | ValuePro | SWM137\$ | 3 | 6 | DPDT on-on | 3A @ 125VAC | .33 x .37 x .33 | .17 | .10 | Solder lugs | 1.89 | 1.69 | 1.59 |
| 2182549 | ValuePro | 10-48HDWR | 4 | — | Additional 10-48UNS threaded panel mounting hardware for above switches indicated with \$ | | | | | | .89 | .79 | .69 |

JAMECO ValuePro

Miniature Toggle Switches

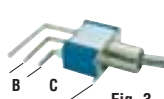
C&K Alcoswitch

c us s

*Web Code: PAJ

- Mounting hole dia.: 1/4"
- Thread: 1/4-40 UNS-2B
- See page 67 for waterproof boot seals

Includes: Panel mounting hardware

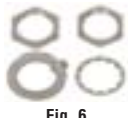
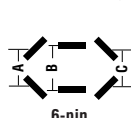
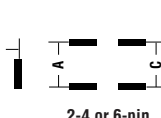
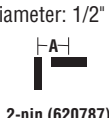


Toggle Switches, Switch Covers & Rocker Switches



Standard Toggle Switches

- Mounting hole diameter: 1/2"
- Shaft thread: M12 x 0.75
- Waterproof boot seals (below)



| Part No. | Manufacturer | Product No. | Fig. | Pins | Contact Form | Contact Rating (A @ VAC) | Dimensions (L" x W" x D") | Lead Spacing | | | Terminal Type | Lever Type | Pricing | | |
|----------|----------------|-------------|------|---|----------------|--------------------------|---------------------------|--------------|-----|------|---------------------|------------|---------|--------|--------|
| | | | | | | | | A" | B" | C" | | | 1 | 10 | 100 |
| 76241 | ValuePro | SWM128 | 1 | 2 | SPST on-off | 4 @ 125 & 2 @ 250 | 1.00 x .56 x .52 | .23 | — | — | Solder lugs | Round | \$1.95 | \$1.75 | \$1.49 |
| 76232 | ValuePro | SWM125 | 2 | 2 | SPST on-off | 6 @ 125 & 3 @ 250 | 1.00 x .53 x .51 | .23 | — | — | 6" lead wire | Round | 1.95 | 1.75 | 1.55 |
| 317825 | ValuePro | R13-25A2-01 | 3 | 2 | SPST on-off | 10 @ 125 & 6 @ 250 | 1.14 x .59 x .62 | .38 | — | — | .250" quick connect | Round | 2.55 | 2.29 | 1.99 |
| 318027 | ValuePro | R13-28A-06 | 3 | 2 | SPST on-off | 15 @ 125 & 10 @ 250 | 1.33 x .75 x .75 | .45 | .46 | — | M3 screw | Round | 2.75 | 2.55 | 2.25 |
| 318002 | ValuePro | R13-28A-01 | 3 | 2 | SPST on-off | 15 @ 125 & 10 @ 250 | 1.33 x .75 x .75 | .45 | .57 | — | .250" quick connect | Round | 3.25 | 2.95 | 2.75 |
| 621499 | GC Electronics | 35-3005* | 4 | 2 | SPST on-off | 20 @ 125 & 10 @ 250 | .92 x .64 x .40 | .47 | — | .96 | .250" quick connect | Round | 4.49 | 4.25 | 3.95 |
| 158060 | ValuePro | JKN32† | 1 | 4 | SPDT on-off | 4 @ 125 & 2 @ 250 | 1.00 x .56 x .52 | .23 | .65 | .23 | Solder lugs | Round | 1.25 | 1.09 | .99 |
| 318123 | ValuePro | R13-28D-01 | 3 | 3 | SPDT on-off-on | 15 @ 125 & 10 @ 250 | 1.33 x .75 x .75 | .45 | .65 | .45 | .250" quick connect | Round | 2.49 | 2.25 | 1.95 |
| 2229749 | Arndt | DPDT-C-OFE | 3 | 6 | DPDT on-off | 10 @ 125 & 20 @ 125 | 1.31 x .75 x .75 | .45 | .44 | .45 | M3 screw | Round | 3.25 | 2.95 | 2.65 |
| 317850 | ValuePro | R13-25B1-05 | 5 | 6 | DPDT on-on | 10 @ 125 & 6 @ 250 | 1.14 x .79 x .62 | .40 | .38 | .40 | Solder lugs | Flat | 2.25 | 2.09 | 1.79 |
| 158078 | ValuePro | JKN3CC | 1 | 6 | DPDT on-off | 15 @ 125 & 10 @ 250 | 1.19 x .76 x .73 | .44 | .59 | 1.0 | Screw lugs | Round | 1.55 | 1.29 | 1.15 |
| 318043 | ValuePro | R13-28B-01 | 3 | 6 | DPDT on-on | 15 @ 125 & 10 @ 250 | 1.33 x .75 x .75 | .45 | .61 | 2.5 | .250" quick connect | Round | 3.29 | 2.95 | 2.75 |
| 317972 | ValuePro | R13-25E1-05 | 5 | 6 | DPDT on-off-on | 10 @ 125 & 6 @ 250 | 1.14 x .59 x .62 | .38 | .38 | .38 | Solder lugs | Flat | 3.25 | 2.95 | 2.65 |
| 567761 | ValuePro | T-1224 | 3 | 6 | DPDT on-off-on | 10 @ 125 & 5 @ 250 | 1.18 x .77 x .75 | .40 | .60 | 2.64 | M3 screw | Round | 3.95 | 3.59 | 3.29 |
| 2182733 | ValuePro | M12HDWR | 6 | Additional M12 hardware (2 hex nuts, 1 internal lock washer, 1 key lock washer) | | | | | | | | | .99 | .89 | .79 |

* Shaft thread: 15/32-32 use 2182506 (pg 78) for additional panel mounting hardware † alternate action



Protective and Waterproof Boot Seal Switch Covers

- Full protection from water, oil, sand, dust, dirt, humidity, moisture and other contaminants
- Applications: aerospace, automotive, computer and electronic equipment
- IP68 rated

*Web Code: SBS



2150192



2192683

| Part No. | Manufacturer | Product No. | Description | Dimensions | 1 | 10 | 100 |
|----------|--------------|-------------|---|---------------------------------|--------|--------|--------|
| 2150192 | Zago | TH 606-GY | Toggle switch boot seal, gray, 15/32-32, fits standard toggle switches (above) | 0.625" OD x 0.209" ID x 0.890"H | \$1.49 | \$1.35 | \$1.19 |
| 2192683 | Zago | TH609-BLK | Toggle switch boot seal, black, 15/32-32, fits standard toggle switches (above) | 0.324" OD x 0.226" ID x 0.937"H | 2.09 | 1.89 | 1.69 |



Standard Appliance Panel Mount Rocker Switches



*Web Code: VBU



| Part No. | Mfr. | Product No. | Pins | Contact Form () Momentary | Contact Rating (A @ VAC) | Dimensions (L" x W" x D") | Lead Space | | Rocker Color | Terminal Type | Pricing | | |
|----------|------|--------------------------|------|-------------------------------|--------------------------|------------------------------|------------|-----|---------------|---------------------|---------|--------|--------|
| | | | | | | | A" | B" | | | 1 | 10 | 100 |
| 2208198 | JVP | RS-001G-A-BB-4 | 2 | SPST on-off | 6 @ 125 & 3 @ 250 | .59 x .41 x .75 | — | .20 | Black | .145" quick connect | \$.75 | \$.59 | \$.45 |
| 316048 | JVP | R13-66B-G-02 | 3 | SPST on-off | 9 @ 125 & 6 @ 250 | .83 x .59 x .47 | .31 | .31 | Green illum. | .187" quick connect | 1.09 | .99 | .89 |
| 316128 | JVP | R13-73B-R-02 | 3 | SPST on-off | 9 @ 125 & 6 @ 250 | .83 x .59 x .87 | .35 | .35 | Red illum. | .187" quick connect | 1.09 | .99 | .89 |
| 316136 | JVP | R13-73B-Y-02 | 3 | SPST on-off | 9 @ 125 & 6 @ 250 | .83 x .59 x .87 | .35 | .35 | Yellow illum. | .187" quick connect | .65 | .55 | .45 |
| 316451 | JVP | R13-243A-02 | 2 | SPST on-off | 10 @ 125 & 6 @ 250 | .83 x .37 x .85 | .35 | — | Black | .187" quick connect | .95 | .85 | .75 |
| 1945284 | PRO | R13-66 | 2 | SPST on-off | 10 @ 125 & 6 @ 250 | .83 x .59 x .55 | .31 | — | Dark gray | 5.5" wire leads | .59 | .49 | .39 |
| 2218839 | JVP | RS-105A-BB-3-UL | 2 | SPST on-off | 10 @ 125 & 6 @ 250 | .91 x .78 x .70 | .30 | — | Black | .187" quick connect | .95 | .85 | .75 |
| 577221 | CHY | RAA22H3BBBNN | 2 | SPST on-off | 12 @ 125 & 10 @ 250 | .69 x .51 x .64 | .35 | — | Black | .187" quick connect | 1.09 | .99 | .89 |
| 316022 | JVP | R13-66A-R-02 | 2 | SPST on-off | 15 @ 125 & 8 @ 250 | .83 x .59 x .63 | .31 | — | Red | .187" quick connect | .95 | .85 | .75 |
| 316014 | JVP | R13-66A-B-02 | 2 | SPST on-off | 16 @ 125 & 10 @ 250 | .83 x .59 x .63 | .31 | — | Black | .187" quick connect | .95 | .85 | .75 |
| 2201914 | HNY | 028-01011-00 | 2 | SPST on-off | 16 @ 125 & 12 @ 250 | 1.3 x .55 x .90 | .26 | — | Black | .250" quick connect | .39 | .35 | .29 |
| 2182389 | ARN | 160112E | 2 | SPST (on)-off | 6 @ 125 & 16 @ 250 | 1.0 x .48 x .98 | .38 | .38 | White | .250" quick connect | .69 | .59 | .49 |
| 1945241 | ITW | 163-099-029 | 3 | SPDT | 16 @ 125 & 12 @ 250 | 1.2 x .55 x .59 | .26 | .26 | Black | .250" quick connect | .59 | .39 | .35 |
| 2181255 | C&K | 7101J1V6BE2 | 3 | SPDT on-none-on | 5 @ 120 & 2 @ 250 | .50 x .28 x .37 | — | .19 | Black | PC terminal | .85 | .75 | .65 |
| 2178566 | CWI | GRS-4012-0050 | 3 | SPDT on-on | 8 @ 125 & 4 @ 250 | .74 x .50 x .46 | .22 | — | Red | .187" quick connect | .45 | .35 | .25 |
| 2182354 | ALC | MHL106D10M0 | 3 | SPDT on-off | 6 @ 125 & 3 @ 250 | .50 x .30 x .39 | .19 | .19 | Black | Solder lugs | .99 | .89 | .78 |
| 2182418 | DIA | 570-12/574-1212-0104-007 | 3 | SPDT on-off-on | 5 @ 125 & 2 @ 250 | .50 x .28 x .37 | — | .19 | Black | PC terminal | .49 | .39 | .35 |
| 316072 | JVP | R13-66D-02 | 3 | SPDT on-off-on | 16 @ 125 & 10 @ 250 | .83 x .59 x .47 | .31 | .31 | Black | .187" quick connect | 1.09 | .89 | .79 |
| 2181722 | C&K | 7105J1V3QE2 | 3 | SPDT (on)-off-(on) | 5 @ 120 & 2 @ 250 | .50 x .28 x .37 | — | .19 | Black | PC terminal | .69 | .59 | .55 |
| 617473 | GCE | 35-695 | 3 | SPDT (on)-off-(on) | 16 @ 125 & 16 @ 250 | .93 x .43 x .62 | .34 | .56 | Black | .250" quick connect | 4.49 | 4.05 | 3.69 |
| 316153 | JVP | R13-73C-R-02 | 4 | DPST on-off | 10 @ 125 & 6 @ 250 | .83 x .59 x .87 | .20 | .34 | Red illum. | .187" quick connect | 1.19 | 1.09 | .99 |
| 316111 | JVP | R13-73A2-B-02 | 4 | DPST on-off | 12 @ 125 & 6 @ 250 | .83 x .59 x .68 | .20 | .34 | Black | .187" quick connect | 1.39 | 1.25 | 1.09 |
| 2181271 | OTT | K2ABHLCADA | 4 | DPST on-off | 16 @ 125/250 | 1.06 x .65 x 1.45 | — | — | Green illum. | .187" quick connect | 2.95 | 2.75 | 2.49 |
| 2181183 | C&K | ET21J1ABE2 | 6 | DPDT on-none-on | .4VA @ 20VAC/VDC | .37 x .32 x .36 | — | .10 | Black | PC terminal | .75 | .65 | .55 |

* ALC = Alcoswitch | ARN = Arndt | CHY = Cherry | C&K = C&K Components | CWI = CW Ind. | DIA = Dialight | GCE = GC Elec. | HNY = Honeywell | JVP = ValuePro | ITW = Illinois Tool | OTT = Otto | PRO = Pronic Elec.

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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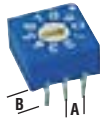
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Rotary, DIP & Keylock Switches

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Rotary DIP Switch

- Gold plated contacts to ensure reliable, low resistance connection
- Fully sealed construction
- Terminals: PC pin leads
- Life: 10,000 cycles min.
- Op. force: 500g-cm max.
- Lead spacing: A = 0.1"; B = 0.3"
- Size: .39"W x .39"D x .20"H
- Material: UL94V-0 grade
- Top adjustment
- Max. switching load rating: 25mA @ 24VDC

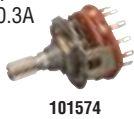


* Web Code: UAX

| Part No. | Mfr. Part No. | Type | Pos. | 1 | 10 |
|----------|---------------|------|------|-------|---------------|
| 139636 | ERD110RSZ | BCD | 10 | ..... | \$2.49 \$2.25 |

Rotary Switches

- Contact rating: 30VDC @ 0.3A; except P/N 2170353/2167533: 125VAC @ 0.3A
- Insulation resistance: 10MΩ min.
- Mounting hole diameter: 3/8"; except P/N 2170353: 0.345"
- Contact resistance: 30mΩ
- Material: solid brass bushings, slotted aluminum shafts (except for P/N 2170353/2167533: D-type); round, plated frame, plastic contact wafer (except for P/N 2170353/2167533: Phenolic casing)
- Solder eyelet lugs
- Make before break except for ones noted with "†"
- Shaft size: 0.46"L x 0.25" Dia.; except P/N 2170353: 0.34"L x 0.25" Dia.
- Lug size: 0.07"
- P/N 2170353 size 0.32"L x 0.25"Dia.
- P/N 2167533 size 0.73"L x 0.25"Dia. (no threads)



* Web Code: TMU



| Part No. | Product No. | Poles | Pos. | 1 | 10 | 100 |
|----------|--------------------------------|-------|------|-------|--------|---------------|
| 2184464 | SR2511F-0107 | 1 | 7 | ..... | \$2.25 | \$2.09 \$1.89 |
| 101532 | G3SR026 | 1 | 12 | ..... | 1.09 | .99 .89 |
| 2170353 | SR2511F-25FN† | 2 | 5 | ..... | 1.75 | 1.59 1.35 |
| 101574 | G3SR022 | 2 | 6 | ..... | 1.29 | 1.15 .99 |
| 2167533 | SR2513F-26NS* | 2 | 6 | ..... | 1.25 | 1.09 .99 |
| 101566 | G3SR023 | 3 | 4 | ..... | 1.09 | .99 .89 |
| 101558 | G3SR024 | 4 | 3 | ..... | 1.25 | .99 .89 |
| 2184481 | SR2511F-0602 | 6 | 2 | ..... | 1.75 | 1.49 1.25 |
| 2182709 | Additional panel mtg. hardware | .. | .. | .. | .69 | .59 .49 |

* Non shorting after breaking

SPECIAL BUY SWITCHES

| Part No. | Description | Price |
|----------|---|--------------|
| 1951385 | DIP, SPST, 2-pos, 4-pin, side flush | \$3.35 |
| 2182451 | Rocker, SPDT, On-None-On, 5A@120VAC |49 |
| 2082450 | DIP, SPST, 7-pos, 14-pin standard flush |25 |
| 2133544 | DIP, SPST, 10-pos, 20-pin, side flush |25 |
| 2076201 | DIP, SPST, 6-pos, 14-pin slide flush |25 |
| 2181052 | Selector, 2-pos, 14-pin 6A@125VAC | 4.95 |

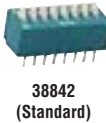
BEST SELLING VISES

| Part No. | Mfr. P/N | Size (L"xW"xH") | Wt. (lbs.) | Price |
|----------|----------|-----------------|------------|---------------|
| 134439 | PVJR 201 | 2 x 1 x 6.8 | 1.4 | \$29.95 |
| 127167 | GVRJ-190 | 10 x 2.5 | 2.1 | 17.95 |
| 262116 | GV-300-R | 5 x 4 x 6.3 | 3.3 | 36.95 |
| 251791 | 209 | 2 x 1 x 7.5 | 0.8 | 29.95 |

Standard, Low Profile, Piano & Right Angle DIP Switches

- Switch contacts: SPST
- Piano switches have raised lever

* Web Code: UCY



38842 (Standard)



696917 (Standard)



2076156 (Right Angle)



696950 (Standard)



139012 (Low Profile)



2082273 (Standard)

* Order in multiples of 10

| Part No. | Product No. | *Mfr. *Type† Pos. | 1 | 10 | 100 |
|----------|-------------|-------------------|-------|---------------|--------|
| 109059 | 206-2-VP-R | JVP 1,5 2 | ..... | \$0.65 \$0.55 | \$0.49 |
| 2076156 | SDAX-2RX-X | BNS 3,5 2 | ..... | .25 .12 | .09 |
| 206359 | 206-3 | JVP 1,5 3 | ..... | .39 .35 | .29 |
| 38820 | DT-04VP | JVP 1,5 4 | ..... | .89 .79 | .69 |
| 696950 | 78B04ST | GRY 1,5 4 | ..... | .99 .89 | .79 |
| 2082231 | 3-4356405 | AMP 1,7 4 | ..... | .75 .65 | .55 |
| 696888 | 76SB04 | GRY 1,7 4 | ..... | .99 .79 | .75 |
| 2082505 | 206-517 | ARN 1,7 5 | ..... | .25 .12 | .09 |
| 546759 | 3-435668-5 | AMP 1,8 5 | ..... | .29 .19 | .15 |
| 38826 | 206-6 | JVP 1,5 6 | ..... | .75 .65 | .59 |

* 1. Standard; 2. Low Profile; 3. Right Angle; 4. Piano Style; 5. Slide Raised; 6. Slide Flush; 7. Rocker Raised; 8. Rocker Flush
† 0.08"L lever

A Series Rotary Switches

- 30° index flattened actuator, 3/8-32 threaded mounting style
- Solder lug termination
- Dielectric strength: 1000Vrms
- 15,000 make & break cycles
- Contact resistance: 20mΩ typical @ 2-4VDC
- Contact rating: 2.5A @ 125VAC; 350mA @ 250VDC
- Contact and terminals: brass, silver plated
- Housing/actuator: glass filled 6/6 nylon (UL94V-0)
- Stop style: adjustable



2182611

576501

| Part No. | Mfr. Part No. | Poles | Pos. | Act. Ht. | 1 | 10 |
|----------|--------------------------------|-------|------|----------|-------|---------------|
| 576501 | A11215RNZQ | 1 | 12 | 1.5" | ..... | \$4.95 \$4.49 |
| 2132234 | A30403RNCBE | 3 | 4 | 0.375" | ..... | 3.95 3.59 |
| 2182611 | Additional panel mtg. hardware | ..... | .. | .. | .69 | .59 |

E-SWITCH Rotary Switch

- 1 poles • No stop option
- 1 to 12 positions
- Operating force: 8.6 N/cm
- Insulation resistance: 100MΩ
- Rating: 350mA @ 125VAC; 150mA @ 250VAC



| Part No. | Product No. | 1 | 10 | 100 |
|----------|--------------------------------|-------|---------------|--------|
| 2167322 | KC52A13.00NPS | ..... | \$1.09 \$0.95 | \$0.79 |
| 2182611 | Additional panel mtg. hardware | .. | .69 .59 | .49 |

Pocket Trim Potentiometer Adjustment Tool

- Glass-filled body
- Stainless steel blade



| Part No. | Description | Length | 1 | 10 | 100 |
|----------|--------------|--------|-------|---------------|--------|
| 153315 | Trimmer tool | 5.2" | ..... | \$2.49 \$2.25 | \$1.95 |

Round Keylock Switches

- Used in computer and other security systems
- Key removable from 2 positions • Two keys
- Mounting hole = 0.75" (except P/N 2220613 = 0.42")

105832: All keys marked different (2001, 2007, 2024)

196649: All keys marked alike (2341) Includes: Mounting nut

2167701: Key removable in 1 position, .577" mounting hole; DPDT

2167710: Key removable in 4 position, .732" mounting hole; SP4T

2172025: Key removable in 4 position, .413" mounting hole; SPDT

2229757: Key removable in 1 position, no electrical



2220613



105832/196649



2167701



2167710

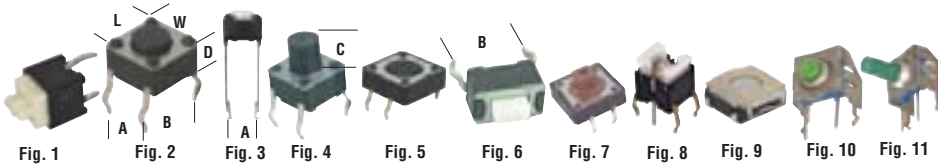
| Part No. | *Mfr. | Product No. | No. Flat, Dia. | Length | Terminal | Voltage/Current | 1 | 10 | 100 |
|----------|-------|-------------|----------------|--------|----------------------------|-----------------|-------|---------------|--------|
| 2220613 | JVP | S126-2 | 2, 0.59" | 0.91" | Barrel | 125VAC/3A | ..... | \$5.59 \$5.05 | \$4.59 |
| 105832 | JVP | KS3B | 2, 0.66" | 1.48" | 0.25" quick connect | 125VAC/6A | ..... | 5.09 4.59 | 4.09 |
| 196649 | JVP | 3313E-M | 2, 0.66" | 1.48" | 0.25" quick connect | 125VAC/6A | ..... | 5.95 5.39 | 4.79 |
| 2167701 | JVP | 31-295-025D | 1, 0.574" | 1.42" | 0.126" solder, quick conn. | 250VAC/5A | ..... | 2.59 2.29 | 2.09 |
| 2167710 | LOR | KC77362 | 4, 1.1" | 1.42" | Solder | 110VAC/35A | ..... | 1.95 1.75 | 1.49 |
| 2172025 | JVP | S116-1 | 1, 0.42" | 1.20" | Solder | 125VAC/1A | ..... | 3.59 3.25 | 2.95 |
| 2229757 | ARN | Z Keylock | 0.645" | 1.00" | OD threaded barrel | — | ..... | 2.95 2.59 | 2.25 |

* ALC = Alcoswitches | AMP = AMP/Tyco | ARN = Arndt | BNS = Bourns | C&K = C&K Switches | GRY = Grayhill | JVP = Jameco ValuePro | LOR = Lorlin Electronics | SMK = SMK Electronics

Tactile, Cord & Speciality Switches

OMRON C&K Tactile Switches

- Bounce time: 10 msec.
- SPST momentary ON
- Lead type: PC
- Contact resistance: 100mΩ



| Part No. | Mfr. | Product No. | Fig. | Pins | Contact Rating (mA @ VDC) | Dimensions (ins.) | Lead Spacing | Button Color | Pricing |
|----------|------|-----------------|------|------|------------------------------|-------------------|--------------|--------------|-------------------|
| | | | | | | L W D C A" B" | | | 1 10 100 |
| 2258742 | ALP | SKEGACA010 | 1 | 2 | 5 @ 12 | .23 .23 .21 .07 | — .21 | Ivory | \$.29 \$.25 \$.19 |
| 1586074 | PAN | EVQ-PAG04K | 2 | 4 | 20 @ 12 | .24 .24 .14 .05 | .17 .26 | Black | .25 .19 .15 |
| 199726 | PAN | EVQ11A04M | 3 | 2 | 20 @ 15 | .24 .24 .14 .03 | .20 .17 | White | .39 .29 .25 |
| 2095120 | PAN | EVQ11L07K | 3 | 2 | 20 @ 15 | .24 .24 .14 .11 | .20 — | Black | .39 .35 .29 |
| 119011 | JVP | KT11B1CM | 2 | 4 | 20 @ 15 | .24 .24 .15 .03 | .17 .25 | Black | .35 .29 .25 |
| 149948 | JVP | KT11P4CM | 4 | 4 | 20 @ 15 | .24 .24 .15 .13 | .17 .25 | Black | .35 .29 .25 |
| 122973 | JVP | DTS1212 | 5 | 4 | 20 @ 15 | .47 .47 .18 — | .20 .50 | Black | .39 .35 .29 |
| 2260800 | JVP | SKRGAFD010-W | 3 | 2 | 50 @ 12 | .24 .24 .14 — | .19 — | White | .25 .19 .15 |
| 2162791 | ALP | SKHLAA010 | 6 | 2 | 50 @ 12 | .24 .14 .14 .06 | — .26 | Black | .25 .15 .12 |
| 155249 | JVP | KRS-3550-BK | 6 | 2 | 50 @ 12 | .24 .14 .15 — | — .27 | Brown | .35 .29 .25 |
| 155256 | JVP | KRS-3550-WH | 6 | 2 | 50 @ 12 | .24 .14 .15 .03 | — .26 | White | .25 .19 .15 |
| 2228842 | OMN | B3F-1026 | 2 | 4 | 50 @ 12 | .24 .24 .15 .06 | .17 .25 | Blue | .35 .29 .25 |
| 153252 | JVP | SDT620K | 2 | 4 | 50 @ 12 | .24 .24 .15 .06 | .17 .25 | Black | .35 .29 .25 |
| 155380 | JVP | KRS-1273B* | 7 | 4 | 50 @ 12 | .47 .47 .14 .14 | .17 .53 | Brown | .45 .39 .35 |
| 162886 | OMN | B3F-1000 | 2 | 4 | 50 @ 24 | .24 .24 .13 .03 | .17 .25 | White | .35 .29 .25 |
| 2076261 | OMN | B3E-1100-Red* | 8 | 4 | 50 @ 24 | .24 .24 .19 .07 | .17 .25 | Red | .25 .05 .04 |
| 2076287 | OMN | B3E-1300-Green* | 8 | 4 | 50 @ 24 | .24 .24 .19 .07 | .17 .25 | Green | .25 .05 .04 |
| 2076252 | ITT | KSC121JB | 9 | 4 | 50 @ 32 | .24 .24 .10 — | .15 .26 | Gray | .25 .12 .07 |
| 583461 | C&K | KSA0V311 | 10 | 4 | 50 @ 50 | .32 .31 .23 .04 | .30 .20 | Green | .25 .12 .07 |
| 587180 | C&K | KSLOV311 | 11 | 4 | 50 @ 50 | .37 .32 .24 .22 | .20 .30 | Green | .25 .12 .07 |

* Illuminated ♦ See switch caps below

Tactile and Pushbutton Switch Caps

| Part No. | Mfr. | Cross Ref. No. | Description | Dimensions | Material | For Use With | 1 | 10 | 100 |
|----------|------|----------------|-------------|---------------------------|----------|--------------|-------|-------|-------|
| 155409 | JVP | KRS-CAP-B | Round | .50"L x .25"W x .149"SqID | Plastic | P/N 155380 | \$.29 | \$.19 | \$.15 |
| 2202132 | ALC | C22004 | Round | .40"D x .32"H .09"ID | Plastic | P/N 71643 | .25 | .19 | .15 |

Jameco ValuePro Magnetic Reed Switches

- NO (normally open)
- Contact form: SPST

| Part No. | Cross Ref. No. | Contact Rating | Size (L" x D") | Type | 1 | 10 | 100 |
|----------|----------------|----------------|----------------|-------|--------|--------|-------|
| 171872 | MKA14103 | 0.5A @ 100VDC | 0.53 x 0.1 | Axial | \$.129 | \$1.15 | \$.99 |
| 2227794 | 43718P01 | 0.5A @ 200VDC | 2.00 x 0.375 | Bolt | 8.95 | 7.95 | 6.95 |
| 2208817 | RI-OIC | 1.0A @ 200VDC | 1.81 x 0.07 | Axial | 1.25 | 1.09 | .89 |
| 1951342 | MKC-27103 | 1.0A @ 220VDC | 2.24 x 0.1 | Axial | 1.75 | 1.49 | 1.29 |

GC C&K Magnetic Proximity Switches

- Current rating:
0.5A @ 20VAC/VDC; 0.08A @ 120VAC,
P/N 588131: 30VAC @ .3A

| Part No. | Mfr. | Mfr. Part No. | Contact Form | Actuator | Terminal Type | 1 | 10 | 100 |
|----------|------|---------------|--------------|------------|--------------------------------------|--------|--------|--------|
| 617545 | GCE | 35-756 | SPDT NO/NC | Use magnet | Screw term., 1/4" gap, surface mount | \$4.49 | \$3.95 | \$3.59 |
| 588131 | C&K | MPS45GWG | SPST NO | Use magnet | Lead wires, 22AWG, 12"L | 3.95 | 3.75 | 3.59 |

Switchcraft Cord-Switch®

- Max. cable dia.: .375"
- Plastic insulation
- Contact form: SPDT off-(on)
- Button color: red
- Die-cast zinc plated housing
- 1-C switching circuit
- .28V @ 250mA
- Copper alloy plated switch body and insert bushing

| Part No. | Mfr. Part No. | 1 | 10 |
|----------|---------------|---------|--------|
| 297502 | ED903 | \$11.95 | \$9.95 |

seed studio PIR Motion Sensor

This highly integrated module is most commonly used for motion and entry detection. It is compatible with microcontrollers or other DC loads. Can detect motion up to 7.5 feet away.

- Application: switch, motion sensor, thief-guarding system, industrial automation

| Part No. | Description | Price |
|----------|-------------------------|--------|
| 2217713 | 4.5-20VDC input voltage | \$7.95 |

Incremental Encoders

- SPST push ON momentary
- Insulated shaft
- Vertical through-hole PC terminals
- Rotational life: 15,000 cycles minimum
- Closed circuit resistance: 3Ω max.

| Part No. | Mfr. | Size | Detents | 1 | 10 |
|----------|-------|------|---------|--------|--------|
| 2184341 | Alpha | 11mm | 30 | \$1.25 | \$1.09 |
| 2184368 | Alpha | 12mm | 12 | .89 | .79 |

Jameco ValuePro Voltage Selector Switch

- Type SWZ 6-position, panel mount
- Series – parallel connection
- Contact resistance: <10mΩ
- Combination solder and quick disconnect terminals
- UL rated 10A @ 250V, and CSA rated 6.3A @ 250V
- Insulation resistance: 10MΩ @ 500VDC/1 min.

| Part No. | Cross Ref. No. | 1 | 10 | 100 |
|----------|----------------|--------|--------|--------|
| 2154943 | 0033.3504 | \$2.49 | \$2.25 | \$2.09 |

Centrifugal Force Switch

- Contact rating: 0.4VA (max.) @ 20VAC or 20VDC
- Normally open (NO)
- Triggers @ 1.5g (min.) to 5g
- Dielectric strength: 500VDC min. for 1 min.
- Insulation resistance: 1000MΩ (min.)
- Apps: rotational devices, tire centrifugal force detection, direction or axis motion, motion control
- Life: 100,000 cycles (typical)

| Part No. | Mfr. Part No. | 1 | 10 | 100 |
|----------|------------------|-------|-------|-------|
| 2126563 | RV-RUG-00-000-BB | \$.45 | \$.35 | \$.25 |

Reed Alarm Switch

- Housing: white ABS
- Contact rating: DC 100V/0.5A
- Standard type magnetic switch: NO & NC
- Mounting with screws or double-sided tape

| Part No. | Size (in.) | 1 | 10 |
|----------|-----------------|--------|--------|
| 2131143 | 2.5 x 0.5 x 0.5 | \$6.95 | \$6.25 |

Inline Cord Switch

- Contact form: SPST on-off
- Terminal: solder
- Contact rating: 6A @ 120VAC
- Black plastic body
- Rocker actuator

| Part No. | Mfr. Part No. | 1 | 10 | 50 |
|----------|---------------|--------|--------|------|
| 621270 | 35-1851-BU | \$4.95 | \$4.49 | 3.95 |

SEED STUDIOS SWITCHES AND KEYPAD

| Part No. | Description | Price |
|----------|---|--------|
| 2217529 | Green illuminated, metal, 3A@250VAC .. | \$8.95 |
| 2217537 | Red illuminated, metal, 3A@250VAC | 8.95 |
| 2217609 | 3x4 keypad with sealed membrane..... | 5.95 |

* ALP = ALPS Electric | ALC = Alcoswitch | C&K = C&K Switches | GCE = GC Electronics | ITT = ITT Industries Cannon | JVP = Jameco ValuePro | OMN = Omron | PAN = Panasonic

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

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PC Mount Relays

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

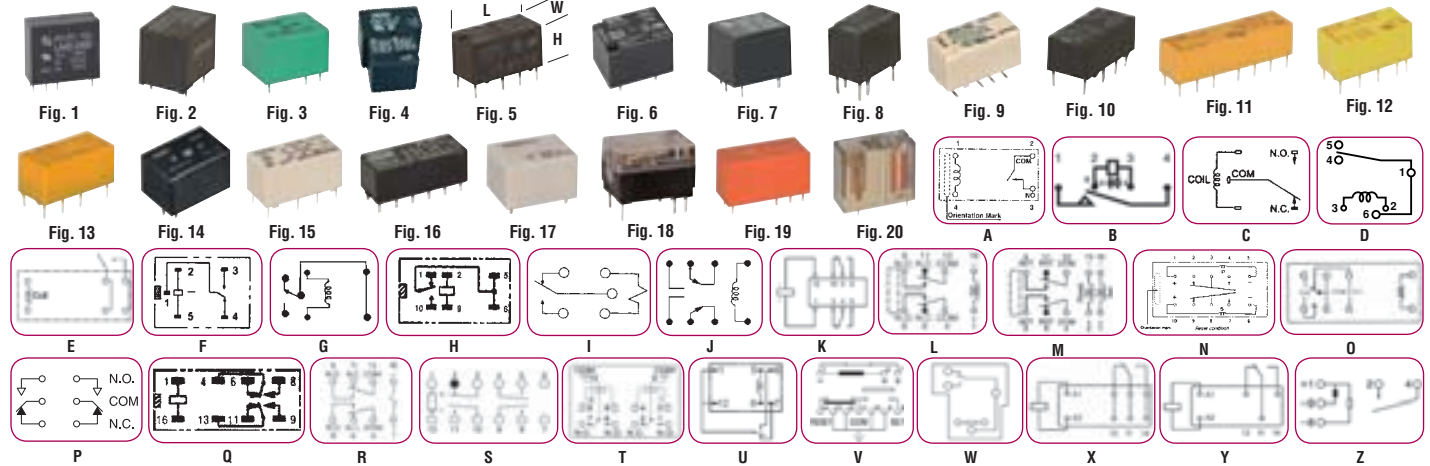
OMRON HAMLIN FUJITSU Small PC Mount Relays

*Web Code: SAV

Designed for the appliance and temperature control markets, these relays are also well suited for automotive load management.

- Mechanical life: 10 million operations
- Electrical life: 100,000 operations
- Dielectric strength: 1500V_{RMS} (between contact and coil)

NEW
MARKED IN PINK



Electromech

| Part No. | Manufacturer | Product No. | Potter & Brumfield Cross Reference | Fig. | Contact Form | Coil Voltage | Coil (Ohms) | Contact Current | Contact Voltage | Pins | Dimensions (L" x W" x H") | Pricing | | |
|----------|--------------------|--------------------|------------------------------------|------|--------------|--------------|-------------|-----------------|-----------------|------|---------------------------|---------|--------|--------|
| | | | | | | | | | | | | 1 | 10 | 50 |
| 2198891 | Panasonic | ADJ23005 | — | 15Z | SPST-NO | 5VDC | 100 | 16A | 277VAC | 7 | 1.14 x .51 x .63 | \$2.95 | \$2.75 | \$2.49 |
| 1860070 | Hamlin | HE3621A0500# | — | 1B | SPST-NO | 5VDC | 500 | 1A | 200VDC | 4 | .75 x .19 x .30 | 1.59 | 1.39 | 1.09 |
| 2220058 | Omron | G6D-1A-ASI-DC12 | — | 1F | SPST-NO | 12VDC | 720 | 5A | 250VAC/30VDC | 4 | .68 x .26 x .50 | 2.95 | 2.75 | 2.49 |
| 2089694 | Amp/Tyco | 1-1393194-5 | T77S103-12 | 2A | SPST-NO | 12VDC | 720 | 3A | 250VAC/30VDC | 4 | .72 x .40 x .57 | .89 | .79 | .69 |
| 2210861 | Omron | G6C-2114P-US-DC12 | — | 14†† | SPST-NO/NC | 12VDC | 720 | 8A | 250VAC/30VDC | 6 | .78 x .59 x .59 | 2.95 | 2.75 | 2.49 |
| 2220040 | Omron | G6B-2114P-US-DC12 | — | 5†† | SPST-NO/NC | 12VDC | 480 | 5A | 250VAC/30VDC | 6 | .78 x .43 x .43 | 2.49 | 2.25 | 2.09 |
| 2077378 | Fujitsu | FBR161NED006-WB | — | 2C | SPST | 6VDC | 100 | 10A | 120VAC/30VDC | 5 | .85 x .63 x .63 | 1.99 | 1.79 | 1.55 |
| 2167550 | Fujitsu | FBR562ND12-N* | — | 17T | SPST | 12VDC | 170 | 60A | 14VDC | 10 | 1.0 x .78 x .63 | .89 | .79 | .69 |
| 843171 | Panasonic | JS1A-24V | — | 7C | SPST | 24VDC | 1600 | 10A | 250VAC/100VDC | 4 | .87 x .63 x .63 | 1.09 | .99 | .89 |
| 2179551 | Nais/Panasonic | RK1-L2-5V | — | 5V | SPDT | 5VDC | 62.5 | .5A | 30VDC | 10 | .80 x .44 x .36 | 1.75 | 1.49 | 1.25 |
| 187151 | Omron | G5LE-1DC5 | — | 2F | SPDT | 5VDC | 63 | 10A/8A | 120VAC/30VDC | 5 | .90 x .65 x .75 | 1.79 | 1.55 | 1.29 |
| 843155 | Panasonic | JS1-5V | T7C55D-05 | 6C | SPDT | 5VDC | 69.4 | 10A/5A | 250VAC/100VDC | 5 | .87 x .63 x .63 | 1.09 | .99 | .85 |
| 174450 | Rayex | LU-5 | T81H5D215 | 7C | SPDT | 5VDC | 125 | 1A/2A | 120VAC/24VDC | 6 | .60 x .40 x .45 | 1.59 | 1.45 | 1.29 |
| 760616 | Panasonic | DS1E-S-DC5V | — | 70 | SPDT | 5VDC | 125 | 3A | 250VAC/220VDC | 5 | .59 x .39 x .37 | 2.49 | 2.25 | 2.09 |
| 187240 | Omron | G5V-1-DC5 | T5C-105L3H | 8H | SPDT | 5VDC | 166.7 | .5A/1A | 125VAC/24VDC | 6 | .50 x .30 x .40 | 2.75 | 2.49 | 2.25 |
| 2131805 | Fujitsu | FBR211AD006M | — | 18U | SPDT | 6VDC | 80 | .5A/1A | 120VAC/28VDC | 6 | .59 x .40 x .41 | .89 | .79 | .69 |
| 2188457 | CIT Relay | WJ115F11C12VDCS6.9 | — | 4W | SPDT | 12VDC | 160 | 30A | 240VAC/30VDC | 5 | 1.25 x 1.06 x .80 | .65 | .55 | .49 |
| 2155081 | ValuePro | 895-1C-S-12VDC | — | 6E | SPDT | 12VDC | 225 | 20A | 14VDC | 5 | .61 x .47 x .54 | .79 | .69 | .59 |
| 2201543 | Schrack | RP419012 | — | 20Y | SPDT | 12VDC | 270 | 8A | 250VAC | 5 | 1.14 x .50 x 1.0 | .65 | .55 | .49 |
| 172937 | Nais (Aromat) | JS1-12V | T72M5D121-12 | 6C | SPDT | 12VDC | 400 | 10A/5A | 125VAC/24VDC | 5 | .85 x .62 x .63 | 1.49 | 1.25 | 1.09 |
| 2179471 | Hongfa | HF3FF-012-1ZST | — | 6C | SPDT | 12VDC | 400 | 10A | 125VAC/28VDC | 5 | .74 x .59 x .60 | .89 | .79 | .69 |
| 174432 | Rayex | LEG-12F | T7C55D12 | 7I | SPDT | 12VDC | 400 | 15A | 120VAC/24VDC | 5 | .76 x .62 x .60 | 1.95 | 1.65 | 1.45 |
| 2179569 | American Zettler | AZ942-ICT-12DE | — | 7F | SPDT | 12VDC | 400 | 16A | 277VAC/250VAC | 5 | .89 x .65 x .66 | .89 | .69 | .59 |
| 1937612 | Porter & Brumfield | T75S5D112-12 | — | 3D | SPDT | 12VDC | 652 | 10A/8A | 240VAC/24VDC | 5 | .18 x .39 x .59 | 1.75 | 1.49 | 1.25 |
| 184461 | Omron | G5V-1-DC12 | — | 8H | SPDT | 12VDC | 960 | .5A/1A | 125VAC/24VDC | 6 | .50 x .30 x .40 | 1.95 | 1.75 | 1.59 |
| 2201551 | Schrack | RT314024 | — | 19X | SPDT | 24VDC | 1440 | 16A | 250VAC | 8 | 1.14 x .50 x .64 | .99 | .89 | .79 |
| 2095390 | ValuePro | V23079A1011B301 | — | 5K | DPDT | 4.5VDC | 145 | 2A | 250VAC/220VDC | 10 | .57 x .28 x .39 | .89 | .79 | .69 |
| 2202749 | Panasonic | DSBT2-S-DC5V | — | 13L | DPDT | 5VDC | 69.4 | 2A | 250VAC/220VDC | 8 | .81 x .42 x .41 | 5.95 | 5.39 | 4.79 |
| 842996 | Panasonic | DS2Y-S-DC5V | — | 2L | DPDT | 5VDC | 125 | 2A/3A | 250VAC/220VDC | 8 | .78 x .39 x .37 | 2.49 | 2.25 | 1.95 |
| 842953 | Panasonic | DS2E-S-DC5V | — | 11L | DPDT | 5VDC | 125 | 2A | 125VAC/30VDC | 8 | .79 x .39 x .39 | 3.25 | 2.95 | 2.65 |
| 140290 | Panasonic | TQ2-L2-5V† | — | 10S | DPDT | 5VDC | 178 | 1A | 125VAC/110VDC | 10 | .55 x .35 x .20 | 2.75 | 2.49 | 2.25 |
| 843649 | Panasonic | TXA2SA-5V | — | 9J | DPDT | 5VDC | 178 | 2A | 30VDC | 8 | .59 x .29 x .22 | 2.49 | 2.25 | 2.09 |
| 2202360 | Fujitsu | NA-5W-K | — | 5†† | DPDT | 5VDC | 178 | 2A | 125VAC/30VDC | 8 | .59 x .29 x .38 | 1.49 | 1.25 | .99 |
| 2158338 | ValuePro | TC-5VDC-C14 | — | 5K | DPDT | 5VDC | 178 | 2A | 220VDC | 8 | .59 x .30 x .33 | 1.95 | 1.75 | 1.49 |
| 2081650 | NEC | EC2-5NJ | — | 5J | DPDT | 5VDC | 178 | 2A | 220VAC/220VDC | 8 | .59 x .30 x .37 | 1.95 | 1.75 | 1.49 |
| 2120516 | Panasonic | DS2Y-SL2-DC6V† | — | 12M | DPDT | 6VDC | 200 | 2A | 250VAC/220VDC | 10 | .79 x .39 x .37 | 1.75 | 1.49 | 1.25 |
| 2077386 | Fujitsu | AL-D9W-K | — | 10N | DPDT | 9VDC | 45 | .5A/1A | 125VAC/30VDC | 10 | .55 x .35 x .20 | 2.49 | 2.25 | 1.95 |
| 2260383 | Rayex | LMR2-12DL | — | 10 | DPDT | 12VDC | 270 | 8A | 250VAC/30VDC | 8 | 1.2 x .48 x 1.0 | 3.29 | 2.95 | 2.75 |
| 187258 | Omron | G5V-2-DC12 | — | 5P | DPDT | 12VDC | 288 | .5A/2A | 125VAC/30VDC | 8 | .81 x .40 x .45 | 3.25 | 2.95 | 2.69 |
| 2228789 | Kemet | UA2-12NU | — | 5Q | DPDT | 12VDC | 1028 | 1A | 250VAC/220VDC | 8 | .42 x .22 x .31 | 1.75 | 1.49 | 1.25 |
| 842902 | Panasonic | DS2E-S-DC12V | — | 13Q | DPDT | 12VDC | 720 | 2A | 250VAC/220VDC | 8 | .79 x .39 x .39 | 1.95 | 1.75 | 1.49 |
| 2202685 | Panasonic | AGN200A12 | — | 1S | DPDT | 12VDC | 1030 | 1A | 125VAC/110VDC | 8 | .41 x .35 x .22 | 1.25 | 1.09 | .99 |
| 2139049 | Omron | G5V-2-HI-DC24 | — | 5Q | DPDT | 24VDC | 2880 | .83A | 125VAC/125VDC | 8 | .81 x .40 x .45 | .89 | .79 | .69 |
| 2133499 | SDS/Relais | S3-12V | — | 16R | 4PST | 12VDC | 720 | 4A | 250VAC/30VDC | 12 | 1.11 x .48 x .41 | 1.75 | 1.49 | 1.25 |

* Automotive, dual relay, separate type # SIP package † Latching †† See schematic on Web datasheet.

Solid State, Enclosed & Reed Relays

OMRON crydom EGE

DC/AC and DC/DC Solid State Relays



* Web Code: DBA



164988 (Fig. 1)



153059 (Fig. 2)



162342 (Fig. 3)



176698 (Fig. 4)



176648 (Fig. 5)



2144737 (Fig. 6)

| Part No. | Mfr. | Mfr. Part No. | Type | Contact Form | Contact Voltage | Contact Current | Control Voltage | Pins | Fig. | Agency Terminal Type | Dimensions Approval | (L" x W" x H") | Pricing | | |
|-------------------------------|----------|---------------|-------|--------------|-----------------|-----------------|-----------------|------|------|----------------------|---------------------|-----------------|---------|--------|--------|
| | | | | | | | | | | | | | 1 | 10 | 50 |
| Solid State Relays DC/AC Type | | | | | | | | | | | | | | | |
| 164988 | Sharp | S101S02 | DC/AC | SPST | 125VAC | 1.5A | 1.2VDC@20mA | 4 | 1 | Solder lead | UL/CSA | 0.9 x .16 x .63 | \$4.25 | \$3.85 | \$3.49 |
| 164996 | Sharp | S202TA1 | DC/AC | SPST | 200VAC | 2A | 1.2VDC@20mA | 4 | 1 | Solder lead | UL/CSA | 0.9 x .16 x .63 | 2.95 | 2.75 | 2.49 |
| 153059 | Rayex | RSR2ND-A24003 | DC/AC | SPST | 240VAC | 3A | 4-32VDC | 4 | 2 | Solder lead | UL | 1.7 x 0.4 x 2.0 | 7.95 | 7.49 | 6.95 |
| 162342 | Excel | ESR51024-010 | DC/AC | SPST | 240VAC | 10A | 3-32VDC | 4 | 3 | Screw terminal | UL | 1.7 x 1.1 x 2.3 | 19.35 | 17.35 | 15.95 |
| 2179462 | Gordos | M-OAC5AH | DC/AC | SPST | 240VAC | 20A | 2.75-8VDC | 4 | 2 | Solder lead | UL/CSA | 1.7 x 1.0 x 0.4 | 5.49 | 4.49 | 3.95 |
| 162369 | Excel | ESR51024-025 | DC/AC | SPST | 240VAC | 25A | 3-32VDC | 4 | 3 | Screw terminal | UL | 1.7 x 1.1 x 2.3 | 20.95 | 19.95 | 18.95 |
| 175214 | Kyoto | KB20C02A | DC/AC | SPST | 280VAC | 2A | 3-32VDC | 4 | 4 | Solder lead | CE | 1.4 x 0.3 x 1.5 | 7.95 | 6.95 | 5.59 |
| 2217975 | Teledyne | BS24D4A | DC/AC | SPST | 280VAC | 4A | 3-10VDC | 4 | 4 | Solder lead | UL/VDE | 1.7 x 1.0 x .39 | 9.95 | 7.95 | 7.19 |
| 176698 | Kyoto | KB20C06A | DC/AC | SPST | 280VAC | 6A | 3-32VDC | 4 | 4 | Solder lead | CE | 1.4 x 0.3 x 0.9 | 9.95 | 8.95 | 7.95 |
| 176719 | Kyoto | KD20C40AX | DC/AC | SPST | 280VAC | 40A | 4-32VDC | 4 | 5 | Screw terminal | UL/CE | 1.7 x 0.9 x 2.3 | 19.95 | 17.95 | 15.95 |
| Solid State Relays DC/DC Type | | | | | | | | | | | | | | | |
| 172591 | Kyoto | KF0602D | DC/DC | SPST | 60VDC | 2A | 3-32VDC | 4 | 4 | Solder lead | CE | 1.4 x 0.3 x 0.9 | \$8.95 | \$7.95 | \$6.95 |
| 175222 | Kyoto | KF0604D | DC/DC | SPST | 60VDC | 4A | 3-32VDC | 4 | 4 | Solder lead | CE | 1.5 x 0.3 x 0.9 | 9.95 | 8.95 | 7.95 |
| 2218126 | Crydom | CMX60D10 | DC/DC | SPST | 60VDC | 10A | 3-10VDC | 4 | 4 | Solder lead | CE | 1.6 x 0.3 x 0.9 | 9.95 | 8.95 | 7.95 |
| 2144737 | Teledyne | C47F-20 | DC/DC | SPST | 90VDC | 1A | 3.8-32VDC | 4 | 6 | DIP-14 | — | .75 x .25 x .17 | 10.95 | 9.95 | 8.95 |
| 176648 | Kyoto | KG1005D | DC/DC | SPST | 120VDC | 5A | 3-32VDC | 4 | 5 | Screw terminal | CE | 2.3 x 1.7 x 0.9 | 19.95 | 17.95 | 15.95 |
| 176655 | Kyoto | KG1010D | DC/DC | SPST | 120VDC | 10A | 3-32VDC | 4 | 5 | Screw terminal | CE | 2.3 x 1.7 x 0.9 | 23.95 | 21.95 | 19.95 |

CLARE Panasonic OptoMOS® Solid State Relays

Applications:

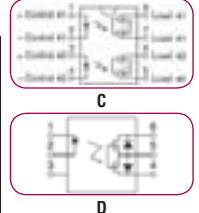
Telecom: Tip/Ring circuits, modem switching
Instrumentation: Multiplexers, data acquisition

* Web Code: WDX



1583041

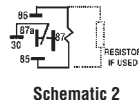
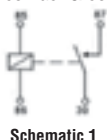
| Part No. | Mfr. Part No. | Package | Description | Schem. | Load Voltage (V) | Current Handling (mA) | On-Resistance (Ω) | Isolation Voltage (Vrms) | Input Control Current (mA) | Off-State Leakage (μA) | Switching Speed (on/off) (ms) | Pricing | | |
|----------|---------------|---------|----------------------------|--------|------------------|-----------------------|-------------------|--------------------------|----------------------------|------------------------|-------------------------------|---------|--------|--------|
| 1583041 | LCA710 | DIP-6 | Single pole, 1-Form-A | A | 60 | 1000 | 0.5 | 3750 | 10 | 1 | 2.5/0.25 | \$4.49 | \$3.95 | \$3.59 |
| 991220 | AQV252G | DIP-6 | Single pole, 1-Form-A | D | 60 | 2500 | 0.8 | 1500 | 5 | 1 | 1.1/0.25 | 5.39 | 4.79 | 4.29 |
| 1582997 | LCA110 | DIP-6 | Single pole, 1-Form-A | B | 350 | 120 | 35 | 3750 | 2 | 1 | 3/3 | 2.49 | 2.25 | 1.95 |
| 1582903 | LAA110 | DIP-8 | Dual single pole, 1-Form-A | C | 350 | 120 | 35 | 3750 | 5 | 1 | 3/3 | 3.95 | 3.59 | 3.29 |



Potter & Brumfield Equivalent Plastic-Enclosed Construction Relays

VF Series

- Dielectric strength: 500VDC (between contact & coil)
- Operating temp.: -35°C to +85°C
- Contact current: 40A
- Coil voltage: 12VDC
- Terminal type: quick connect
- Normally open (NO)
- Dimensions: 1.1"L x 1.1"W x 1.0"H



Schematic 1

Schematic 2



171433 (Fig. 1)



171442 (Fig. 2)



171460 (Fig. 3)

| Part No. | Mfr. | Product No. | P&B Cross Ref. No. | Fig. | Contact Form | Coil Voltage | Coil Ohms | Contact Schematic | Pins | Pricing | | |
|----------|-----------|----------------|--------------------|------|--------------|--------------|-----------|-------------------|------|---------|--------|--------|
| 1810179 | Rayex | LD1A-12BP* | — | 2 | SPST-NO | 12VDC | 80 | 1 | 4 | \$1.09 | \$0.99 | \$0.89 |
| 171460 | Rayex | LD1A-12F | — | 3 | SPST-NO | 12VDC | 80 | 1 | 4 | 2.95 | 2.65 | 2.39 |
| 171442 | Rayex | 961A-1A12D† | — | 2 | SPST-NO | 12VDC | 80 | 1 | 4 | 2.75 | 2.49 | 2.25 |
| 2198831 | Panasonic | CB/AH-24V | — | 2 | SPST-NO | 24VDC | 320 | 1 | 4 | 1.95 | 1.75 | 1.59 |
| 171522 | Rayex | LD5F | VF4-45D11 | 3 | SPDT | 5VDC | 14 | 2 | 5 | 2.09 | 1.95 | 1.75 |
| 148583 | Rayex | LD12F | VF4-85F11 | 1 | SPDT | 12VDC | 78 | 2 | 5 | 2.99 | 2.65 | 2.35 |
| 2094135 | Sanyou | SARL-112D | VF4A-15F11 | 2 | SPDT | 12VDC | 80 | 2 | 5 | 4.49 | 3.95 | 3.59 |
| 2231179 | Ningbo | NVF4-4C-240A2D | — | 1 | SPDT | 12VDC | 80 | 2 | 5 | 3.95 | 3.59 | 3.29 |
| 2094151 | Sanyou | SARL-112DF | VF45A-45F11 | 1 | SPDT | 12VDC | 80 | 2 | 5 | 3.95 | 3.59 | 3.25 |
| 171433 | ValuePro | 961A-1C-12DM | VF4-81F11 | 1 | SPDT | 12VDC | 90 | 2 | 5 | 3.49 | 3.25 | 2.95 |
| 2094186 | Sanyou | SARL-125D | VF4A-15F11 | 2 | SPDT | 24VDC | 320 | 2 | 5 | 3.39 | 3.19 | 2.95 |
| 2094194 | Sanyou | SARL-124DF | VF4A-45H11 | 1 | SPDT | 24VDC | 320 | 2 | 5 | 4.49 | 3.95 | 3.59 |

* PCB terminals † Comes with a removable clip

HAMLIN RELAYS

| Part No. | Description | 1 | 10 | 100 |
|----------|----------------------------|--------|--------|--------|
| 2202722 | 5V @ .5A, SPST, 4-pin ... | \$1.75 | \$1.49 | \$1.25 |
| 2202731 | 5V @ .25A, SPDT, 5-pin ... | 1.75 | 1.49 | 1.25 |

Reed Type Relay

- Contact form: SPST-NO
- Terminal type: PCB solder
- Contact voltage: 120VAC/60VDC
- Coil voltage @ contact rating: 12V @ 11.4mA
- Dimensions: 1.0"L x 0.37"W x 0.38"H

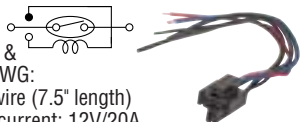


| Part No. | Cross Ref. No. | Pins | 1 | 10 | 50 |
|----------|----------------|------|--------|--------|--------|
| 111448 | BR-1050 | 4 | \$2.25 | \$1.95 | \$1.75 |

Relay Socket with Coil Diode

VF Series

- 14 AWG: 2 black & 1 blue wire; 18 AWG: 1 black & 1 red wire (7.5" length)
- Contact voltage/current: 12V/20A
- Diode coil suppression • Use w/ P/N 148583 (left)



| Part No. | Product No. | 1 | 10 | 50 |
|----------|-------------|--------|--------|--------|
| 170624 | RSD03 | \$2.59 | \$2.35 | \$2.05 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
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| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

DIP/SIP, General Purpose Relays & Relay Sockets

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Aromat EGE KEST HAMLIN DIP & SIP Relays

- Logic control levels
- Long life with reliable operation
- Excellent for PCB applications
- Compatible with IC sockets
- Compact design/construction
- Moisture resistant

★ Web Code: QAN



106463



1860088



2081377

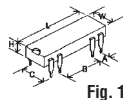


Fig. 1

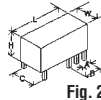
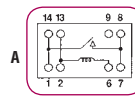
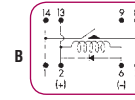


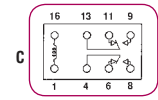
Fig. 2



A



B



C

| Part No. | Manufacturer | Product No. | Fig. | Contact Form | Coil Voltage | Coil Ohms | Contact Voltage | Contact Current | Pins | Jameco Socket | Dimensions (L" x W" x H") | Leads (A" x B" x C") | Pricing | | |
|----------|---------------|--------------|------|--------------|--------------|-----------|-----------------|-----------------|------|---------------|---------------------------|----------------------|---------|--------|--------|
| | | | | | | | | | | | | | 1 | 10 | 100 |
| 138431 | Excel | 2D1A05 | 1B | SPST-NO | 5VDC | 500 | 100VDC | 0.5A | 8 | 37162 | .77 x .30 x .22 | .10 x .40 x .30 | \$2.95 | \$2.75 | \$2.49 |
| 106463 | Excel | 201A05 | 1A | SPST-NO | 5VDC | 500 | 100VDC | 0.5A | 8 | 37162 | .78 x .25 x .20 | .10 x .40 x .30 | 2.75 | 2.49 | 2.25 |
| 1860088 | Hamlin | HE3621A0510 | — | SPST-NO | 5VDC | 500 | 200VDC | 0.5A | 4† | — | .75 x .20 x .30 | .20 x .60 | 1.55 | 1.29 | 1.15 |
| 2202722 | Hamlin | HE751A0500 | 1A | SPST-NO | 5VDC | 500 | 300VDC | 0.5A | 4 | 37162 | .77 x .28 x .22 | .10 x .40 x .30 | 1.75 | 1.49 | 1.25 |
| 106472 | Excel | 201AIZ | 1A | SPST-NO | 12VDC | 1000 | 100VDC | 0.5A | 8 | 37162 | .78 x .25 x .20 | .10 x .40 x .30 | 2.35 | 2.09 | 1.89 |
| 2202731 | Hamlin | HE3321C0500 | 1A | SPDT-CO | 5VDC | 125 | 175VDC | 0.25A | 5 | — | .95 x .27 x .29 | .10 x .20 x .01 | 1.75 | 1.49 | 1.25 |
| 139977 | ValuePro | RSB5S | 2C | DPDT | 5VDC | 125 | 120VAC/30VDC | 1A/2A | 8 | 37373 | .79 x .39 x .37 | .20 x .40 x .30 | 2.99 | 2.65 | 2.45 |
| 2081414 | KEST | KS2E-M-DC5 | 2C | DPDT | 5VDC | 128 | 125VAC/28VDC | 1A/2A | 8 | 37373 | .83 x .40 x .48 | .20 x .30 x .30 | 2.75 | 2.49 | 2.25 |
| 2081377 | KEST | KS2E-M-DC12 | 2C | DPDT | 12VDC | 708 | 125VAC/28VDC | 1A/2A | 8 | 37373 | .83 x .40 x .48 | .20 x .30 x .30 | 2.25 | 1.95 | 1.75 |
| 99311 | Aromat (NAIS) | DS2Y-S-DC12V | 2C | DPDT | 12VDC | 720 | 110VAC/30VDC | 0.3A/1A | 8 | 37373 | .79 x .40 x .43 | .20 x .40 x .30 | 3.19 | 2.89 | 2.59 |
| 2081406 | KEST | KS2E-M-DC24 | 2C | DPDT | 24VDC | 1440 | 125VAC/28VDC | 1A/2A | 8 | 37373 | .83 x .40 x .48 | .20 x .30 x .30 | 2.75 | 2.49 | 2.25 |

† SIP



General Purpose Power Relays

★ Web Code: GPR

For complete specifications visit www.Jameco.com

| Part No. | Mfr. | Product No. | Contact Form | Rating | Contact Rating | Coil Resis. | Contact Type | 1 | 10 | 50 |
|----------|-----------|----------------|--------------|---------------|-------------------|-------------|--|--------|--------|--------|
| 2167453 | Panasonic | JTVIAS-PA-12 | SPST | 12VDC @ 83mA | 30A, 277VAC | 144Ω | PCB terminals | \$.99 | \$.85 | \$.75 |
| 611928 | P&B | T9AP1D52-48-03 | SPST-NO | 48VDC @ 21mA | 30A, 240VAC | 2304Ω | Quick connect: .187" for coil/.250" for contacts | 5.09 | 4.59 | 4.09 |
| 137358 | ValuePro | 953-1C12DM-R | SPDT | 12VDC @ 77mA | 20A, 240VAC/28VDC | 155Ω | Quick connect: .110" for coil/.250" for contacts | 3.29 | 2.99 | 2.65 |
| 2208147 | ValuePro | H2R-72ABTAA | DPST-NO | 12VDC @ 140mA | 30A, 277VAC | 23Ω | .250" quick connect | 9.95 | 8.95 | 7.95 |
| 2208155 | ValuePro | H2R-72ACTAA | DPST-NO | 24VDC @ 70mA | 30A, 277VAC | 310Ω | .250" quick connect | 6.95 | 6.25 | 5.59 |
| 552462 | P&B | PRD-7AG0-120 | DPST-NO | 120VAC @ 85mA | 30A, 240VAC | 290Ω | Screw: #8-32 for main; #6-32 for contacts | 34.95 | 32.95 | 30.95 |



General Purpose Blade and Octal Relays

- UL/CSA approved
- Industry standard termination for quick installation
- Wide range of coil voltages for industrial and commercial applications



★ Web Code: ACF



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

| Part No. | Mfr. | Product No. | Fig. | Contact Form | Coil Voltage | Contact Rating | Coil Resis. (Ω) | Coil Current (mA) | Mating Socket* | | Pricing | | |
|----------|----------|---------------------|------|--------------|--------------|---------------------------|-----------------|-------------------|----------------|----------|---------|--------|--------|
| | | | | | | | | | Standard | DIN Rail | 1 | 10 | 50 |
| 2093079 | Omron | LY2F-DC12 | 1 | DPDT | 12VDC | 10A @ 24VDC; 10A @ 110VAC | 160 | 75 | PT08 | 175531 | \$6.19 | \$5.59 | \$4.95 |
| 139766 | Rayex | MK2P-I | 2 | DPDT | 12VDC | 10A @ 28VDC; 10A @ 240VAC | 120 | 10 | 141145 | 141145 | 6.95 | 6.25 | 5.59 |
| 172719 | ValuePro | LB2-12DS-R | 1 | DPDT | 12VDC | 12A @ 30VDC; 12A @ 240VAC | 160 | 75 | 175531 | 282191 | 6.15 | 5.69 | 5.19 |
| 282255 | P&B | K10P-11D15-12 | 5 | DPDT | 12VDC | 15A @ 30VDC; 15A @ 120VAC | 160 | 75 | 282191 | 282191 | 8.95 | 7.95 | 7.19 |
| 175565 | ValuePro | LB2-24DS-R | 1 | DPDT | 24VDC | 12A @ 30VDC; 12A @ 240VAC | 650 | 37 | 175531 | 282191 | 6.59 | 5.95 | 5.39 |
| 2218214 | Omron | LY2-UA-006244 | 4 | DPDT | 110/120VAC | 10A @ 24VDC; 10A @ 110VAC | 4430 | 9.9/10.8 | — | 175531 | 4.49 | 3.95 | 3.59 |
| 175573 | ValuePro | LB2-110ASR | 3 | DPDT† | 110VAC | 12A @ 30VDC; 12A @ 240VAC | 3900 | 28 | 175531 | 282191 | 5.95 | 5.49 | 4.95 |
| 2224112 | Picker | PC703-2C-M-120VAC | 2 | DPDT | 120VAC | 10A @ 28VDC; 5A @ 240VAC | 2250 | 29.8 | 282132 | 141145 | 8.95 | 7.95 | 6.95 |
| 139740 | Beta | BTA6-2C-J-CW-120VAC | 2 | DPDT | 120VAC | 10A @ 28VDC; 10A @ 240VAC | 1700 | 122 | 141145 | 141145 | 6.95 | 6.59 | 5.95 |
| 282247 | P&B | K10P-11A15-120 | 5 | DPDT | 120VAC | 15A @ 30VDC; 15A @ 120VAC | 3900 | 11 | 282191 | 282191 | 10.95 | 9.95 | 8.95 |
| 2167461 | Omron | MY4-DC12 | 1 | 4PDT | 12VDC | 3A @ 30VDC; 3A @ 250VAC | 160 | 75 | 2167470 | 2167470 | 3.59 | 3.25 | 2.95 |
| 291507 | ValuePro | LB4H-12DS-R | 4 | 4PDT | 12VDC | 5A @ 30VDC; 5A @ 240VAC | 160 | 75 | 175557 | 175557 | 4.49 | 3.95 | 3.59 |
| 175602 | ValuePro | LB4H-24DS-R | 4 | 4PDT | 24VDC | 5A @ 30VDC; 5A @ 240VAC | 650 | 37 | 175557 | 175557 | 6.15 | 5.69 | 5.19 |

*For sockets see below

† = Silver-cadmium oxide, no lamp



Blade and Octal Relay Sockets

★ Web Code: TEM

141145/175531/282191/282132: 8-pin DPDT

2167470 /175557: 14-pin 4PDT

| Part No. | Mfr. | Product No. | Relay Series | Type | 1 | 10 | 50 |
|----------|----------|-------------|--------------|----------|--------|--------|--------|
| 141145 | Beta | PF-083A | BTA1 | Combo† | \$3.29 | \$2.95 | \$2.59 |
| 175531 | ValuePro | PTF08A-A | K10 | Combo† | 5.09 | 4.59 | 4.09 |
| 2167470 | Omron | PYF14A-E | MY | Combo† | 1.75 | 1.49 | 1.25 |
| 282191 | P&B | 27E895 | K10 | DIN Rail | 6.95 | 6.25 | 5.59 |
| 282132 | P&B | 27E122 | KRP/KRPA | Standard | 5.95 | 5.49 | 4.95 |
| 175557 | ValuePro | PYF14A-A | KHUA | DIN Rail | 4.09 | 3.69 | 3.39 |

† Combo: DIN rail or screw terminal



141145



2167470



282191



282132



Defense & Marine

LEV200H5ANA Contactor Relay

- Coil voltage: 24VDC @ 0.6A
- Coil resistance: 40Ω
- Contact form: SPST-NO (1 Form X)
- Contact rating: 500A
- 13" coil lead wires
- Size: 2.29"Dia. x 3.7"Depth

NEW MARKED IN PINK



Applications: Battery switching and backup, DC voltage power control, circuit protection and safety

| Part No. | Mfr. | Part No. | 1 | 10 | 50 |
|----------|-------------|----------|---------|---------|---------|
| 2228762 | 5-1618388-5 | ..... | \$99.95 | \$89.95 | \$79.95 |

Proximity, Hall Effect & Environmental Sensors

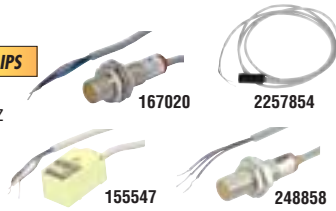


Inductive Proximity Switch Sensors

Cylindrical and Square Styles

*Web Code: IPS

- Operating voltage range: 10-30VDC
- Nominal operating voltage: 12VDC
- Normally open output
- Current consumption: 10mA max.
- Sensing target: inductive type – magnetic metal
- Sensing distance: $\pm 10\%$ (tin)
- LED status indicator
- Switching frequency: 1.5kHz
- Fast response
- Pre-tinned pigtail
- 6' long cable
- Short-circuit protected



| Part No. | Mfr. Part No. | Output Circuit | Effec. Dist. (Iron) | Standard Target (Iron) (mm) | Dimensions (L x Dia.) | Mounting Hole (ins.) | Pricing | | |
|----------|---------------|----------------|---------------------|-----------------------------|-----------------------|----------------------|---------|---------|---------|
| | | | | | | | 1 | 5 | 25 |
| 167020 | TS12-02N-1 | NPN | 0-1.6mm | 12 x 12 x 1 | 1.8" x 0.46" | 0.46 | \$21.95 | \$19.95 | \$17.95 |
| 2257854 | APM-D3A1 | NPN | 0-2.5mm | 15 x 15 x 1 | 1.0"Lx0.3"Wx0.23"H | 0.110 | 15.95 | 13.95 | 12.49 |
| 155547 | S18-05N-1 | NPN | 0-4.0mm | 18 x 18 x 1 | 1.4"Lx1.4"Wx0.7"H | 0.112 | 13.49 | 12.49 | 11.49 |
| 248858 | TS12-02P-1 | PNP | 0-1.6mm | 12 x 12 x 1 | 1.8" x 0.46" | 0.46 | 20.95 | 18.95 | 16.95 |

Solid State Digital Position Sensors

Honeywell

- High output current capability -50mA absolute max.
- Oper. temp. range: -40°C to 150°C
- 3-pin SIP package
- Output type: sink
- Output volt./curr.: 40mV/20mA max.
- Supply current: 10mA max.
- Supply voltage:



1915915/1915886: 3.8VDC to 30VDC
1915940: 3VDC to 6.5VDC

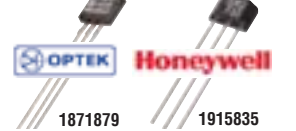
*Web Code: DPS

| Part No. | Mfr. Part No. | Type | 1 | 10 | 100 |
|----------|---------------|----------------|--------|--------|--------|
| 1915915 | SS466A | Latching .. | \$1.19 | \$0.99 | \$0.89 |
| 1915940 | SS49E | Sourcing | 1.99 | 1.79 | 1.55 |
| 1915886 | SS441A | Unipolar | 1.49 | 1.25 | 1.09 |

Hall Effect Sensors

*Web Code: REB

- Supply voltage range: 4.5V-24V
- Supply current: 9mA max.
- Operating temp. up to 150°C



More Hall Effect Sensors on page 10

| Part No. | Mfr. Part No. | Bop/Brp * @ 25°C | 1 | 10 |
|----------|---------------|--------------------|--------|--------|
| 1871879 | OH180U | 180/140 gauss ... | \$2.95 | \$2.75 |
| 1915835 | SS41 | 40/-40 gauss | .99 | .89 |
| 2201906 | HAL115UA-C | 12/-12 gauss | .65 | .59 |

* BOP = Magnetic Operating Point; BRP = Magnetic Release Point

Gear Tooth Speed Sensor

Commercial Grade Hall Effect

- Operating voltage range: 4.5-24VDC
- Output type: sink
- Output current: 25mA max.
- Supply current: 6mA max.
- Output voltage: 400mV max.
- Thread: 15/32" – 32
- Reverse battery protection from 24VDC
- Operating temperature range: -40°C to 125°C



| Part No. | Mfr. Part No. | 1 | 5 | 25 |
|----------|----------------|---------|---------|---------|
| 512401 | GS100701 | \$29.95 | \$26.95 | \$24.95 |

Environmental Sensor

This special sensor provides very specific functions regarding its environmental situation. As one of the first CO₂ sensors, it determines the concentration of CO₂ in the air by dropping its output voltage as more CO₂ accumulates.



| Part No. | Mfr. | Description | Price |
|----------|---------|------------------------------|---------|
| 2213270 | DFRobot | CO ₂ sensor | \$58.95 |



Hall Effect Magnetic Proximity Sensor

- With Snap-Fit Mount
- Operating voltage range: 4.75-24VDC
- No mechanical contacts to wear out
- South pole sensitive or bi-polar latch
- Output saturation voltage max.: 400mV
- Output: 3-wire sink
- Immune to dust, dirt and moisture
- Digital output compatible with all logic families
- Operating temp. range: -40°C to 85°C
- Solid state reliability
- Reverse polarity protection to -24V



*Web Code: CCC

| Part No. | Mfr. Part No. | Supply Curr. Max. (mA) | Output Curr. Max. (mA) | Op. Point Gauss (max.) | Rel. Point Gauss (min.) | Wire | Pricing | | |
|----------|---------------|------------------------|------------------------|------------------------|-------------------------|------------|---------|--------|--------|
| | | | | | | | 1 | 5 | 25 |
| 513244 | MP101301 | 4 | 25 | 300 | 60 | 24AWG x 1m | \$6.59 | \$5.95 | \$5.49 |



Magnetic Proximity Sensor Cylindrical Plastic Housing

- Omnipolar, magnetically activated switch
- Hermetically sealed
- Contact resistance: 0.2Ω max.
- Resistant to dirt and moisture
- Operating temp. range: -40°C to 105°C
- Can be approached by any magnet from any angle with either pole
- Zero power consumption
- Breakdown voltage: 200VDC min.



*Web Code: CCC

| Part No. | Mfr. Part No. | Contact Form | Power (W) | Switching Volt. Max. (VDC) | Switching Curr. Max. (A) | Op. Time Typical (ms) | Pricing | | |
|----------|---------------|--------------|-----------|----------------------------|--------------------------|-----------------------|---------|--------|--------|
| | | | | | | | 1 | 10 | 50 |
| 482417 | AS201901 * | SPST NO | 10 | 175 | 0.5 | 0.6 | \$3.95 | \$3.59 | \$3.29 |
| 513359 | MP201901 | SPST NO | 10 | 175 | 0.5 | 0.6 | 3.95 | 3.59 | 3.29 |

* Actuator to be used with 513359



High Performance Sonar Range Finders

MaxBotix is a leader in ultrasonic range finder products for standard, industrial and outdoor applications. These products can detect objects from as close as 6" all the way to 35' depending on the model.

*Web Code: MXB



| Part No. | Mfr. Part No. | Fig. | Max. Beam Width† | Detection Range (ft.) | Data Output* | Pricing | |
|----------|---------------|------|------------------|-----------------------|--------------|---------|---------|
| | | | | | | 1 | 5 |
| 2157335 | MB1040 | 1 | 2 feet | 1-21.16 | PW, AV, SD | \$25.95 | \$23.49 |
| 2157351 | MB1240 | 2 | 3 feet | 1-25.1 | PW, AV, SD | 36.95 | 33.95 |
| 2157327 | MB1010 | 1 | 5 feet | 1-21.16 | PW, AV, SD | 24.95 | 22.95 |

* PW = pulse-width; AV = analog volt.; SD = serial digital † Beam characteristics are approximate

BEST SELLING TEST LEADS

| Part No. | Manufacturer | Mfr. Part No. | Description | Length | 1 | 10 |
|----------|--------------|---------------|--|--------|--------|--------|
| 10444 | BenchPro | GAL01 | Alligator to alligator (10 pc) | 21" | \$5.95 | \$5.39 |
| 256832 | BenchPro | CBB-069-R | BNC female to pigtail (1 pc) | 7" | 6.15 | 5.49 |
| 11464 | BenchPro | 05-A-078-R | BNC male to Mini-clip test lead (1 pc) | 39" | 5.49 | 4.95 |
| 2097555 | BenchPro | CBB-070-R | BNC male to pigtail, 20 AWG 2 wire | 9" | 5.95 | 4.95 |
| 174625 | Probe Master | 8150 | Micro-tip test probe leads, RA (2 pc) | 39" | 44.95 | 42.95 |
| 159899 | Pomona | 3782-36-02 | Mini grabber to banana (2 pc) | 36" | 13.95 | 13.49 |
| 135299 | BenchPro | SF-207A-R | Mini grabber to mini grabber (5 pc) | 14" | 11.25 | 10.25 |
| 77746 | BenchPro | FC-15B-R | Multimeter test probes (2 pc) | 42" | 6.95 | 6.25 |
| 2113914 | Pomona | 5953A | Multimeter test probes (2 pc) | 48" | 27.95 | 26.95 |
| 77746 | BenchPro | FC-15B-R | Multimeter test probes (2 pc) | 42" | 6.95 | 6.25 |
| 77842 | BenchPro | 84TS-XX-330MM | Stackable banana patch cords, 18 AWG (10 pc) | 13" | 27.95 | 24.95 |



*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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Sensors, Keypads & Microphone Cartridges

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



Digital/Analog Distance Sensors

These sensors are small in size and can be placed just about anywhere on your project.

2136462: 3-pin header connection (included)

2150256: Connects with 3-pin JST connector (P/N 2143881, not included)

| Part No. | Mfr. | Mfr. P/N | Digital/Analog | Detection Range | Res. Time | 1 | 10 |
|----------|----------|----------|--|-----------------|-----------|---------|---------|
| 2150256 | Parallax | 28995 | Analog | 3.9" to 31.5" | 38.0 ms | \$13.95 | \$12.49 |
| 2136462 | Sharp | 1137 | Analog | 7.8" to 59" | 38.0 ms | 13.95 | 12.49 |
| 2143881 | Pololu | 117 | 3-pin female JST cable w/ stripped leads | | | 1.35 | 1.19 |
| 2143419 | Pololu | 1799 | 3-pin female JST cable w/ 0.1" crimp terminals | | | 1.75 | 1.49 |



* Web Code: PDS



Arduino Compatible Sensors

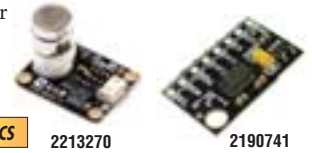


These plug and play sensors are ready for immediate installation and use.

2213270: • Operation voltage: 5V, 7-12V reg. at MCU for heating

2190741: • 2.0VDC to 3.6VDC
• SPI and I²C interface

| Part No. | Mfr. | Description | 1 | 10 |
|----------|------------|--|---------|---------|
| 2213270 | DFRobot | CO ₂ gas sensor, single digital output (MG-811) | \$58.95 | \$55.95 |
| 2190741 | Liquidware | 3-axis accelerometer ADXL345 | 10.49 | 9.49 |



* Web Code: ACS

For Arduino Boards and Sensors, see pages 142-143



Flex Sensor

This flex sensor is perfect for applications that require the measurement of repeated bending.

- Maximum resistance: 30kΩ to 40kΩ, proportional to the degree of flexing or bending
- Applications: virtual reality data gloves, robotic, bio-metric, physics and engineering

| Part No. | Nominal Res. | Length | 1 | 10 |
|----------|--------------|--------|---------|---------|
| 150551 | 10kΩ | 4.5" | \$12.95 | \$11.49 |



Force-Sensing Resistors

- Polymer thick film (PTF) optimized for human touch control of electronic devices
- >1MΩ, no force, 100kΩ to >100Ω under pressure
- 0.72" dia. circular pad, 0.5" Dia. sense area
- Can sense applied force from 1 oz. to 22 lbs.
- 1.3" flexible male leads, 0.1" spacing

| Part No. | Mfr. Part No. | Size | 1 | 10 |
|----------|---------------|---------------------|--------|--------|
| 2128260 | 1696 | 0.72"Dia./50°Circle | \$7.95 | \$7.19 |
| 2136471 | 1645 | 1.72"L x 1.5"W | 9.95 | 8.95 |



12-Button 3x4 Numeric Keypad

This sealed membrane keypad is super slim and ready to go.

- Adhesive back
- 3.5" flat cable
- 7-pin female connector
- Size: 2.4" x 3.0"

| Part No. | Mfr. Part No. | 1 | 10 | 100 |
|----------|---------------|--------|--------|--------|
| 2217609 | COM62229M | \$5.95 | \$5.35 | \$4.75 |



Ultrasonic Sensor Sets

Motion or Distance Sensing, Transmitter/Receiver Set

- Frequency: 40kHz ±1.0kHz
- Aluminum case

139492: • Capacitance: 2000pF ±20%

- Transmitter: bandwidth 5.0kHz @ 100dB, sound pressure level 112dB @ 40 ±1.0kHz
- Receiver: bandwidth 5.0kHz @ -75dB, min. sensitivity 67dB @ 40 ±1.0kHz (R=3.9kΩ)

136654: • Capacitance: 2000pF ±30%

- Transmitter: bandwidth 4.0kHz @ 112dB, sound pressure level 119dB @ 40 ±1.0kHz
- Receiver: bandwidth 3.5kHz @ -71dB, min. sensitivity 65dB @ 40 ±1.0kHz (R=3.9kΩ)

| Part No. | Manufacturer | Product No. | Case Size | Lead Length/Spacing | 1 | 10 | 100 |
|----------|--------------|-------------|--------------------|---------------------|--------|--------|--------|
| 139492 | ValuePro | 40TR12B | 0.30"H x 0.43"Dia. | 0.28" | \$6.95 | \$6.25 | \$5.59 |
| 136654 | ValuePro | 40TR16F | 0.47"H x 0.62"Dia. | 0.39" | 6.59 | 5.95 | 5.25 |



* Web Code: CAU



Omni-Directional Electret Condenser Microphone Cartridges

Applications: Tape recorders, intercoms, hearing aids, telephone and answering devices, sonic controlled toys and sensors

- Max current: 0.5mA
- Impedance: >2.2kΩ
- Terminals: PC pin leads

* Web Code: QBW



| Part No. | Cross Ref. No. | Sensitivity | Frequency (Hz) | Max. Op. Volt. | Stand Op. Volt. | Sensitivity Reduction | S/N Ratio | Size (H x Dia.) | Pricing | | |
|----------|-------------------|-------------|----------------|----------------|-----------------|-----------------------|-----------|-----------------|---------|--------|--------|
| | | | | | | | | | 1 | 10 | 100 |
| 1950948 | AMF-097A40-NB1-LF | -60 ±3dB | 50-16,000 | 10VDC | 3.0VDC | -3dB @ 3V | >58dB | .27" x .39" | \$.99 | \$.79 | \$.69 |
| 2202095 | F9767AP* | -38 ±3dB | 20-16,000 | 10VDC | 3.0VDC | -3dB @ 1.5V | >58dB | .26" x .38" | 1.09 | .99 | .89 |
| 2188633 | AOM-6545P-R* | -45 ±2dB | 20-20,000 | 10VDC | 4.5VDC | -3dB @ 3V | >60dB | .26" x .37" | .89 | .75 | .65 |
| 2126141 | EC928P-602 | -40 ±2dB | 20-12,000 | 10VDC | 4.5VDC | -3dB @ 1.5V | >75dB | .26" x .38" | .89 | .75 | .65 |
| 136574 | WM-60PC | -54 ±2dB | 20-12,000 | 12VDC | 4.5VDC | -3dB @ 3V | >40dB | .30" x .38" | .99 | .89 | .75 |
| 320179 | EM-99 | -64 ±2dB | 20-12,000 | 12VDC | 4.5VDC | -3dB @ 3V | >40dB | .27" x .39" | .99 | .75 | .65 |

* Manufacturer: Arndt

* Keypads Online — Enter Web Code XBA

RELAY SHIELDS AND MODULES

| Part No. | Description | Price |
|----------|---|--------|
| 2144454 | The DFRobot single relay allows you to switch on and off a number of electronic modules | \$8.95 |
| 2152260 | This DFRobot relay shield V2.1 is a new design which is capable of controlling 4 relays | 19.95 |
| 2260842 | The Grove relay is a digital normally open switch that controls a relay at high voltage | 5.95 |



16-Button Indoor/Outdoor Keypads



- 9-pin .100" headers
- Compatible with MOS, TTL and DTL (10Ω max.)
- Contact rating: 24VDC @ 10mA resistive
- Fully sealed snap-dome contact
- Life test: 3,000,000 cycles per key
- Recommended connector: P/N 103191 header and P/N 100766 pin, pg 57
- Size (housing): 4.7"W x 1.7"H x 0.4"T

2161473: 8-pin access, adhesive backing

| Part No. | Description | 1 | 10 | 100 |
|----------|---------------------|---------|---------|---------|
| 196171 | 2x8 matrix keypad | \$16.95 | \$15.49 | \$13.95 |
| 2230467 | 3x4 matrix keypad | 12.95 | 11.95 | 10.95 |
| 2161473 | 4x4 membrane keypad | 8.95 | 7.95 | 6.95 |
| 152063 | 4x4 matrix keypad | 16.95 | 14.49 | 12.95 |

Buzzers, Transducers & Sirens

JAMECO ValuePro

VELLEMAN

Piezo Buzzers (Annunciators)

*Web Code: JPB

| Part No. | Manufacturer | Product No. | Fig. | Tone | Oper. Volt. (V/mA) | Volt. Range | Sound (dB) | Freq. (Hz) | Dimensions (H x Dia.) | Pricing | | |
|----------|--------------|---------------|------|-------------|-----------------------|----------------|---------------|---------------|---------------------------|---------|--------|--------|
| | | | | | | | | | | 1 | 10 | 100 |
| 336989 | ValuePro | 11S3120LF-TA | 4 | Single | 1-16/30 | 1-16 | 100 | 2900 | 1.35" x 1.71" | \$3.25 | \$2.95 | \$2.75 |
| 335557 | ValuePro | MSR320 | 2 | Single | 3-20/3-16 | 3-20 | 90 | 3400 | .39" x .91" | 2.39 | 2.09 | 1.89 |
| 1956696 | Velleman | SV4/5-S | 3 | Single | 5/25 | 3-6 | 87 | 3200 | .30" x .47" | 3.25 | 2.95 | 2.75 |
| 2172906 | Mallory | SCM616N-1 | 9 | Continuous* | 6/16/6-22 | 6-16 | 90 | 2900 | 1.06" x 1.70" | 2.25 | 1.95 | 1.75 |
| 2173861 | ValuePro | 20S1060LF-LA | 5 | Single | 6/25 | 4-8 | 75 | 400 | .91" L x .67" W x .61" H | 1.75 | 1.49 | 1.25 |
| 2205245 | SoundTech | SEP-2240 | 6 | Continuous | 12/7 | 3-16 | 70 | 4100 | .30" x .55" | 1.25 | 1.09 | .99 |
| 138713 | ValuePro | 32S4120-PN | 6 | Single | 12/7 | 3-16 | 80 | 4000 | .30" x .54" | 1.99 | 1.79 | 1.55 |
| 673900 | ValuePro | SEP-1172 | 7 | —† | 12/7 | 3-28 | 81 | 3300 | .63" x 1.24" | .45 | .39 | .35 |
| 2202925 | Murata | PKM33EP-1001 | 8 | Continuous | 12/7 | 3-30 | 70 | 4000 | .29" x 1.25" | 1.25 | 1.09 | .99 |
| 2120452 | ValuePro | DB-E238 | 1 | Single | 12/8 | 3-20 | 85 | 2900 | .63" x .93" | 1.99 | 1.79 | 1.55 |
| 2117430 | ValuePro | 7P3120LF-LA | 10 | Pulse | 12/10 | 3-15 | 90 | 3200 | .98" x 1.10" | 2.99 | 2.65 | 2.35 |
| 2261298 | Velleman | SVM12M | 5 | Single | 12/25 | 8-15 | 85 | 500 | .92" L x .67" W x .58" H | 2.55 | 2.29 | 1.99 |
| 249498 | ValuePro | 1103120-LF-TA | 9 | Dual# | 12/25 | 4-16 | 95 | 2900 | 1.35" x 1.72" | 3.95 | 3.59 | 3.29 |
| 2173870 | ValuePro | 20S1120LF-LA | 5 | Single | 12/25 | 9-15 | 75 | 400 | 1.32" L x .67" W x .61" D | 1.75 | 1.49 | 1.25 |
| 32602 | ValuePro | 11S3240-R | 9 | Single | 24/15 | 1-27 | 95 | 2900 | 1.4" x 1.7" | 2.75 | 2.49 | 2.25 |
| 76021 | ValuePro | 7S3240-LA | 9 | Single | 24/20 | 1.5-28 | 95 | 3200 | 1.0" x 1.1" | 4.09 | 3.69 | 3.39 |
| 123538 | ValuePro | 11D3240 | 9 | Dual# | 24/20 | 4-28 | 80 | 2900 | 1.4" x 1.7" | 3.55 | 3.19 | 2.85 |
| 2192499 | Arndt | MBUZ-24VDC | 11 | Single | 24/30 | 15-27 | 75 | 400 | .90" L x .66" W x .57" H | 1.25 | 1.09 | .99 |

† Requires driver circuit

Continuous or fast pulse

* PCB terminals



VELLEMAN

KOBITONE

Piezo Transducers (Speakers)

*Web Code: JPT

| Part No. | Manufacturer | Product No. | Fig. | Rated Voltage | Max. Current | Res Frequency | Sound (dB) | Dimensions (H" x Dia.) | Pricing | | |
|----------|--------------|------------------|------|------------------|-----------------|------------------|---------------|---------------------------|---------|--------|--------|
| | | | | | | | | | 1 | 10 | 100 |
| 1956784 | Velleman | TV4 | 1 | 1.5Vp-p | 1.5mA | 4kHz | 75 | 0.01 x 1.97 | \$2.99 | \$2.65 | \$2.35 |
| 1956776 | Velleman | TV1 | 2 | 1.5Vp-p | 1.5mA | 4kHz | 85 | 0.24 x 1.18 | 2.35 | 2.09 | 1.89 |
| 1874543 | Murata | PKM13EPYH4002-B0 | 4 | 3Vp-p | 1.5mA | 4kHz | 70 | 0.27 x 0.50 | .69 | .59 | .49 |
| 2207081 | ValuePro | AZ-3040E-W-LF | 2 | 3Vp-p | 5mA | 4kHz | 85 | 0.22 x 1.18 | 1.09 | .99 | .89 |
| 2098523 | Kobitone | PB140-ROX | 4 | 5Vp-p | 5mA | 4kHz | 80 | 0.27 x 0.54 | 1.25 | 1.09 | .99 |
| 2210968 | Panasonic | EAF-12RT04CC | 4 | 5Vp-p | 2mA | 2.04kHz | 85 | 0.33 x 0.47 | .79 | .69 | .59 |
| 2099702 | Kobitone | 256-PB315 | 6 | 10Vp-p | 7mA | 4kHz | 82 | 0.30 x 0.67 | .39 | .35 | .29 |
| 336276 | ValuePro | PT-1250W | 3 | 12Vp-p | 2mA | 4kHz | 75 | 0.17 x 0.53 | .75 | .59 | .49 |
| 336314 | ValuePro | KWT2340F12L-2ER | 2 | 12Vp-p | 3mA | 4kHz | 80 | 0.18 x 0.94 | 1.55 | 1.29 | 1.15 |
| 2077280 | Panasonic | 24C411 | 4 | 15Vp-p | 2mA | 4kHz | 85 | 0.24 x 0.94 | .59 | .49 | .39 |
| 2151216 | Arndt | EAT-17 | 5 | 20Vp-p | 1mA | 3.8kHz | 80 | 0.27 x 0.55 | .55 | .45 | .35 |



JAMECO ValuePro

KOBITONE

Magnetic Transducers (Buzzers)

• Applied voltage: 1/2 duty, square wave

*Web Code: JMT

| Part No. | Manufacturer | Product No. | Fig. | Oper. Volt. (V/mA) | Volt. Range | Frequency (Hz) | Impedance (Ω) | Sound (dB) | Dimensions (H x Dia.) | Pricing | | |
|----------|--------------|-------------|------|-----------------------|----------------|-------------------|------------------|---------------|--------------------------|---------|--------|--------|
| | | | | | | | | | | 1 | 10 | 100 |
| 2159701 | Arndt | CB-12HN | 1 | 2.4/100 | 1.1-3 | 2700 | 10 | 85 | .20" x .47" | \$.25 | \$.19 | \$.15 |
| 138740 | ValuePro | DBX05-PN | 2 | 5/40 | 3-8 | 2400 | 80 | 85 | .35" x .46" | 1.25 | 1.09 | .99 |
| 673871 | ValuePro | PRT-1205 | 2 | 5/40 | 3-8 | 2400 | 47 | 90 | .35" x .46" | .69 | .59 | .49 |
| 2129748 | Kobitone | 256-MB2161 | 2 | 12/40 | 6-18 | 2048 | 115 | 85 | .55" x .63" | .25 | .19 | .15 |



JAMECO ValuePro

Mechanical/Electromechanical Buzzers

*Web Code: MEB

| Part No. | Manufacturer | Cross Ref. No. | Fig. | Oper. Volt. (V/mA) | Voltage Range | Frequency (Hz) | Sound (dB) | Dimensions | Pricing | | |
|----------|--------------|----------------|------|-----------------------|------------------|-------------------|---------------|--------------------------|---------|--------|--------|
| | | | | | | | | | 1 | 10 | 100 |
| 76065 | ValuePro | TDB05-PN | 1 | 5/30 | 4-7 | 2300 | 85 | .35" H x .46" Dia. | \$4.09 | \$3.69 | \$2.99 |
| 24872 | ValuePro | 63S109LA | 2 | 9/30 | 6-12 | 400 | 85 | 1.3" L x 0.7" W x 0.6" H | 1.79 | 1.55 | 1.29 |
| 140695 | ValuePro | 63S1120-LA | 2 | 12/25 | 9-15 | 400 | 75 | 1.3" L x 0.7" W x 0.6" H | 1.79 | 1.55 | 1.29 |
| 2192472 | Arndt | MBUZ-120VAC | 3 | 120/180 | 0-120 | 50-60 | 75 | 1.3" L x 0.9" W x 0.7" H | .79 | .69 | .59 |



JAMECO ValuePro

Piezo Sirens – High Decibel Output

*Web Code: PSS

| Part No. | Manufacturer | Product No. | Fig. | Oper. Volt. (V/mA) | Voltage Range | Frequency (Hz) | Sound (dB) | Dimensions | Pricing | | |
|----------|--------------|---------------|------|-----------------------|------------------|-------------------|---------------|--------------------------|---------|--------|--------|
| | | | | | | | | | 1 | 10 | 100 |
| 2203063 | Intervox | BPS8432L-12-C | 1 | 12/85 | 6-15 | 2500-2800 | 105 | 3.3" L x 2.2" W x 1.3" H | \$5.95 | \$5.49 | \$4.95 |
| 207993 | ValuePro | SL15R3120LA | 2 | 12/250 | 6-16 | 3500 | 105 | 2.3" L x 1.8" W x 1.6" H | 4.75 | 4.25 | 3.75 |
| 2131223 | Velleman | SV/PS1 | 2 | 12/200 | 6-15 | 3500 | 107 | 2.2" L x 1.7" W x 1.7" H | 5.49 | 4.95 | 4.49 |



*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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JAMECO ValuePro

Square & Round Flat Element Speakers

- Excellent for alarms or other voice uses
- Stainless steel diaphragm

* Web Code: XAE

| Part No. | Cross Ref. | Dimensions (Dia. x D") | Input | | Impedance (Ω) | Output SPL (dB) | Frequency Range (Hz) | Element Size (Dia. x H") | Pricing | | |
|----------|------------|---------------------------|---------|---------|------------------|--------------------|-------------------------|-----------------------------|---------|--------|--------|
| | | | Nom (W) | Max (W) | | | | | 1 | 10 | 100 |
| 2227508 | AZ30R* | 1.2 x 0.2 | 0.4 | 0.8 | 8 | 70 | 1300 - 8000 | 1.2 x 0.1 | \$1.95 | \$1.75 | \$1.49 |
| 34025 | GSP02-R | 1.2 x 0.2 | 0.4 | 0.8 | 8 | 70 | 1300 - 8000 | 1.2 x 0.1 | 1.49 | 1.25 | 1.09 |
| 2227516 | AZ40R** | 1.6 x 0.2 | 0.4 | 0.8 | 8 | 70 | 600 - 6000 | 1.6 x 0.1 | 1.95 | 1.75 | 1.49 |
| 76030 | AZ40S | 1.6 x 0.2 | 0.4 | 0.8 | 8 | 70 | 600 - 6000 | 1.6 x 0.1 | 1.49 | 1.35 | 1.19 |
| 673766 | AZ50S | 1.9 x 0.2 | 0.4 | 0.8 | 4 | 70 | 500 - 6000 | 1.9 x 0.1 | 2.25 | 1.95 | 1.75 |

76030 Side

76030 Back

* Round with 2" wire leads

** Round

JAMECO ValuePro

Alnico Round, Square and Rectangular Speakers

* Web Code: EAL

| Part No. | Product No. | Fig. | Dimensions (Dia. x D") | Input | | Impedance (Ω) | Output SPL (dB) | Frequency Range (Hz) | Magnet Size (Dia. x H") | Pricing | | |
|----------|--------------|------|---------------------------|---------|---------|------------------|--------------------|-------------------------|----------------------------|---------|--------|--------|
| | | | | Nom (W) | Max (W) | | | | | 1 | 10 | 100 |
| 88411 | A0200 | 1 | 2.0 x 0.8 | 0.2 | 0.4 | 8 | 87 | 430 - 4500 | 0.5 x 0.4 | \$2.25 | \$1.99 | \$1.75 |
| 2146388 | TR057A-R | 1 | 2.25 x 0.77 | 0.25 | 0.5 | 8 | 84 | 300 - 14000 | 0.5 x 0.4 | 2.75 | 2.49 | 2.25 |
| 307820 | UF1082 | 4 | 1.73 x 0.275 | 0.5 | 1.0 | 8 | 80 | 200 - 6000 | 0.8 x 0.1 | .65 | .59 | .49 |
| 2115442 | K7048202 | 5 | 1.6Lx2.8Wx0.9H | 3.0 | 3.0 | 8 | 82 | 310 - 12000 | 0.87 x 0.29 | 2.25 | 1.99 | 1.75 |
| 2258806 | 15294900 | 7 | 7.0 x 5.0 | 10 | 10 | 8 | 82 | 100 - 10000 | 2.5 x 1.1 | 4.95 | 3.95 | 2.95 |
| 1950972 | I-826-219# | 3 | 8.2Lx2.2Wx2.0H | 1.0 | 4.5 | 8 | 85 | 30 - 20000 | 1.5 x 2.8 | 2.49 | 1.95 | 1.75 |
| 2258793 | S0307F390 | 6 | 2.9 x 1.2 x 1.0 | 1.0 | 5.0 | 8 | 80 | 100 - 1000 | 1.2 x 0.8 | 2.95 | 2.49 | 2.25 |
| 135812 | A1527C02 | 2 | 1.6Lx2.8Wx1.2H | 2.0 | 5.0 | 8 | 82 | 450 - 20000 | 0.5 x 0.5 | 3.59 | 3.25 | 3.09 |
| 2224032 | 49-1334-02 | 6 | 6.3Lx3.1Wx2.2H | 7.0 | 7.0 | 8 | 85 | 100 - 18000 | 2.1 x 1.0 | 4.95 | 3.95 | 3.59 |
| 2217828 | HKS-16-0.5 | 1 | 3.0 x 0.9 | 0.5 | 1.0 | 16 | 89 | 500 - 5000 | 1.2 x 0.4 | .99 | .89 | .79 |
| 2217836 | 1.009.841-C† | 1 | 3.0 x 1.2 | 3.0 | 4.0 | 16 | 89 | 400 - 10000 | 1.8 x 0.5 | 1.25 | .99 | .89 |
| 2230782 | A0102 | 1 | 1.5 x 0.66 | 0.1 | 0.2 | 45 | 78 | 100 - 9500 | 0.7 x 0.42 | 1.49 | 1.35 | 1.19 |

Sony LCD plasma replacement speaker (actual size: 6"H x 2.15"W x 1.94"D) † With lead wires

- For computer case use
- Paper diaphragm
- Large magnet
- Wide frequency response
- Pre-tinned solder lugs



JAMECO ValuePro

Micro Round and Rectangular Speakers

* Web Code: TBX

| Part No. | Product No. | Dimensions (Dia. x D") | Input (W) | | Impedance (Ω) | Output SPL (dB) | Frequency Range (Hz) | Magnet Size (Dia. x H") | Pricing | | |
|----------|---------------|---------------------------|-----------|------|------------------|--------------------|-------------------------|----------------------------|---------|--------|--------|
| | | | Nom. | Max. | | | | | 1 | 10 | 100 |
| 2099606 | SP801W | 1.05 x 0.35 | 0.1 | 0.2 | 8 | 78 | 320 - 7500 | 0.67 x 0.17 | \$1.55 | \$1.29 | \$1.15 |
| 2158215 | MR-01W | 2.25 x 0.43 | 0.1 | 0.2 | 8 | 84 | 460 - 7000 | 0.75 x 0.18 | .65 | .55 | .45 |
| 2095242 | 35CS088-M75NA | 1.4Lx1.3Wx0.2H | 0.2 | 0.3 | 8 | 80 | 550 - 6700 | 0.44 x 0.10 | .85 | .65 | .59 |
| 2224171 | RD1-8-1W | 1.5 x 0.1 | 0.1 | 1.0 | 8 | 80 | 500 - 7000 | 0.64 x 0.06 | 1.19 | 1.05 | .95 |
| 2228851 | GC361MA | 1.4 x 0.14 | 0.2 | 0.5 | 8 | 84 | 150 - 5000 | 0.64 x 0.65 | 2.95 | 2.59 | 2.29 |
| 2099593 | R5745B | 2.25 x 0.5 | 0.1 | 0.2 | 45 | 86 | 150 - 9000 | 0.68 x 0.17 | 1.15 | 1.05 | .89 |



JAMECO ValuePro

Round Ferrite Speakers

* Web Code: TAT

| Part No. | Manufacturer | Product No. | Dimensions (Dia. x D") | Input (W) | | Impedance (Ω) | Output SPL (dB) | Frequency Range (Hz) | Magnet Size (Dia. x H") | Pricing | | |
|----------|--------------|-------------|---------------------------|-----------|------|------------------|--------------------|-------------------------|----------------------------|---------|--------|--------|
| | | | | Nom. | Max. | | | | | 1 | 10 | 100 |
| 2224041 | Adrnt | 110153-01 | 2.4 x 1.4 | 10 | 10 | 4 | 85 | 1000 - 12000 | 2.2 x 0.5 | \$4.49 | \$3.95 | \$3.59 |
| 2205561 | Panasonic | 45P30S | 1.8 x 0.7 | 0.1 | 0.1 | 8 | 93 | 530 - 3000 | 1.3 x 0.4 | .99 | .79 | .69 |
| 223146 | Arndt | MSC299SWC | 2.0 x 0.7 | 0.2 | 0.4 | 8 | 83 | 500 - 8000 | 1.3 x 0.4 | 1.99 | 1.79 | 1.55 |
| 10840 | ValuePro | FE201 | 2.2 x 0.7 | 0.2 | 0.4 | 8 | 88 | 400 - 4500 | 1.3 x 0.4 | 1.95 | 1.75 | 1.49 |
| 320362 | ValuePro | TR-057F-R | 2.0 x 0.7 | 0.25 | 0.5 | 8 | 86 | 900 - 9000 | 1.3 x 0.25 | 2.55 | 2.29 | 1.99 |
| 2208825 | Arndt | EAS-6P60SD | 2.2 x 1.3 | 0.4 | 0.8 | 8 | 85 | 100 - 5000 | 0.7 x 0.6 | 1.75 | 1.49 | 1.25 |
| 2190653 | ValuePro | GF0502BX | 2.0 x 1.0 | 2.0 | 5.0 | 8 | 88 | 100 - 17000 | 1.5 x 0.5 | 2.95 | 2.75 | 2.49 |
| 2205202 | Arndt | HKS-16-5 | 3.0 x 0.7 | 0.5 | 2.0 | 16 | 92 | 200 - 3000 | 0.8 x 0.5 | .99 | .89 | .79 |
| 2188916 | Sharp | 80P-G3YB | 3.0 x 0.7 | 0.5 | 2.0 | 32 | 92 | 200 - 3000 | 0.8 x 0.5 | .99 | .89 | .79 |

- Pre-tinned speaker lugs
- Anodized metal surfaces
- Braided copper voice coil leads
- Paper diaphragm
- Large magnet



JAMECO ValuePro

Square Ferrite Speakers

* Web Code: EDT

| Part No. | Manufacturer | Product No. | Dimensions (Dia. x D") | Input (W) | | Impedance (Ω) | Output SPL (dB) | Frequency Range (Hz) | Magnet Size (Dia. x H") | Pricing | | |
|----------|--------------|--------------|---------------------------|-----------|------|------------------|--------------------|-------------------------|----------------------------|---------|--------|--------|
| | | | | Nom. | Max. | | | | | 1 | 10 | 100 |
| 99996 | ValuePro | FEB204 | 2.6 x 0.9 | 3.0 | 4.0 | 4 | 95 | 300 - 14000 | 1.8 x 0.5 | \$3.59 | \$2.99 | \$2.49 |
| 2231208 | CUI | CMS0231KLX | 0.9 x 0.9 | 2.0 | 4.0 | 8 | 82 | 450 - 20,000 | .75 x 0.5 | 4.95 | 4.49 | 3.95 |
| 2229618 | Arndt | SP99023A | 2.1 x 1.25 | 10 | 20 | 4 | 90 | 400 - 8000 | 1.8 x 0.5 | 2.95 | 2.59 | 2.25 |
| 135694 | ValuePro | FEB200 | 2.0 x 0.7 | 0.2 | 0.3 | 8 | 82 | 500 - 6000 | 1.3 x 0.5 | 2.29 | 1.99 | 1.79 |
| 2231161 | Shogyo | GF0506X | 2.0 x 2.0 | 0.2 | 0.5 | 8 | 82 | 0 - 7200 | 1.8 x 0.5 | 2.95 | 2.59 | 2.29 |
| 2179673 | Arndt | 27JRG | 4.0 x 1.4 | 3.0 | 3.0 | 8 | 85 | 800 - 10000 | 1.8 x 0.5 | 1.75 | 1.49 | 1.25 |
| 2179657 | Arndt | 1422 | 2.6 x 0.7 | 0.4 | 0.8 | 8 | 85 | 500 - 8000 | 1.2 x 0.5 | 2.35 | 1.99 | 1.79 |
| 2167285 | Arndt | 1-529-483-11 | 3.0 x 2.25 | 4.0 | 5.0 | 8 | 85.7 | 180 - 10000 | 2.5 x 1.0 | 3.59 | 3.25 | 2.75 |
| 1954818 | ValuePro | TQ-100F-R | 4.0 x 1.4 | 5.0 | 5.0 | 8 | 97 | 800 - 10000 | 1.8 x 0.5 | 3.59 | 3.25 | 2.75 |
| 31959 | ValuePro | FEB216 | 2.6 x 0.8 | 0.2 | 0.4 | 16 | 85 | 330 - 8000 | 1.3 x 0.5 | 2.75 | 2.49 | 2.25 |
| 2205464 | Regal | 16-3-3 | 3.0 x 1.0 | 1.0 | 1.0 | 16 | 85 | 500 - 10000 | 0.86 x 0.40 | 1.25 | 1.09 | .99 |
| 2179681 | Arndt | 27JRG-1624 | 4.0 x 1.4 | 2.0 | 2.0 | 16 | 85 | 800 - 11000 | 1.8 x 0.5 | 1.25 | .99 | .89 |



30mm PCB Mountable Speakers

- Ideal for PC board mounting
- Power (nominal/max.): 0.15W/0.2W
- Mylar diaphragm
- Solder leads

135722

| Part No. | Size (H x Dia.) | Impedance | Pin Spacing | Freq. Range | SPL (dB) | 1 | 10 | 100 |
|----------|-----------------|-----------|-------------|-------------|----------|-------|-------|-------|
| 2095234 | 0.57" x 1.24 | 8Ω | 0.69" | 700-4kHz | 82 | \$.99 | \$.89 | \$.69 |
| 135722 | 0.50" x 1.17" | 8Ω | 0.59" | 700-5kHz | 82 | 1.25 | 1.09 | .99 |
| 2099817 | 0.47" x 1.16" | 100Ω | 0.58" | 1.1kHz ±20% | 95 | .69 | .59 | .49 |



BEST SELLING AUDIO KITS

| Part No. | Description | No. of Pieces | Exp. Level | 1 | 5 |
|----------|----------------------------|---------------|--------------------|--------|--------|
| 147571 | Voice activated kit | 33 | Intermediate..... | \$6.95 | \$6.25 |
| 2130731 | Voice changer kit | 36 | Beginner | 12.95 | 11.95 |
| 2196588 | 2 x 5 watt amplifier | 25 | Beginner | 14.95 | 14.25 |
| 127255 | Universal mono pre-amp kit | 22 | Intermediate | 12.95 | 11.49 |

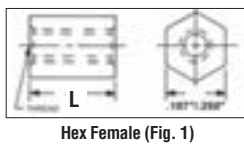


.187"/.250" Aluminum, Brass & Steel Hex Threaded Standoffs

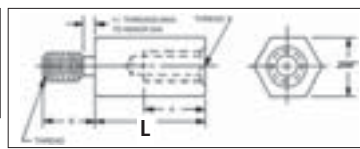


- Finish: 1 Aluminum iridite (clear)
2 Brass bright tin plate
3 Chrome

- 2228949: A: 2.00"; B: 2.65"



Hex Female (Fig. 1)



Hex Male/Female (Fig. 2)

Hex Male/Female Standoffs

.187" Hex 4-40 Thread (Fig. 1)

| Part No. | *Mfr. | Product No. | Length of L | Pricing | | |
|----------|-------|---------------|-------------|---------|--------|--------|
| | | | | 1 | 10 | 100 |
| 175636 | JVP | 2052-440S0 3 | .187" | \$.25 | \$.19 | \$.15 |
| 133613 | RAF | 2053-440AL7 1 | .250" | .29 | .25 | .19 |
| 102796 | JVP | 14-552 2 | .250" | .29 | .25 | .19 |
| 133640 | RAF | 2057-440AL7 1 | .500" | .39 | .35 | .25 |
| 133648 | RAF | 2059-440AL7 1 | .625" | .39 | .35 | .25 |
| 133656 | RAF | 2061-440AL7 1 | .750" | .45 | .39 | .29 |
| 139185 | RAF | 2065-440AL7 1 | 1.00" | .49 | .45 | .35 |

.187" Hex 4-40 (Fig. 2) (A: .250"; B: .187")

| Part No. | *Mfr. | Mfr. Part No. | Length of L | Pricing | | |
|----------|-------|---------------|-------------|---------|--------|--------|
| | | | | 1 | 10 | 100 |
| 2228949 | MOL | 1207200 1 | .200" | \$.29 | \$.25 | \$.19 |
| 393458 | RAF | 4501-440AL7 1 | .250" | .45 | .39 | .35 |
| 393466 | RAF | 4503-440AL7 1 | .375" | .45 | .39 | .35 |
| 393474 | RAF | 4505-440AL7 1 | .500" | .49 | .45 | .39 |
| 2125202 | RAF | 4508-440BR7 2 | .709" | .25 | .15 | .12 |
| 393491 | RAF | 4509-440AL7 1 | .750" | .49 | .45 | .39 |
| 393503 | RAF | 4513-440AL7 1 | 1.00" | .49 | .45 | .39 |

JAMECO ValuePro

SAE Hardware

NEW MARKED IN PINK

- Zinc-plated steel

*Web Code: JNN

Slotted Pan Head Machine Screws

| Part No. | Thread | Screw Size | Length (in.) | 10 piece multiples | | |
|----------|--------|------------|--------------|--------------------|---------|---------|
| | | | | 10 | 100 | 1000 |
| 38173 | 2-56 | 2 | .250 | \$.099 | \$.079 | \$.059 |
| 2094338 | 2-56 | 2 | .500 | .099 | .079 | .059 |
| 40952 | 4-40 | 4 | .250 | .059 | .025 | .018 |
| 40970 | 4-40 | 4 | .375 | .079 | .069 | .059 |
| 106810 | 4-40 | 4 | .500 | .079 | .069 | .059 |
| 106543 | 6-32 | 6 | .250 | .065 | .029 | .022 |
| 42446 | 6-32 | 6 | .375 | .079 | .069 | .059 |
| 42438 | 6-32 | 6 | .500 | .065 | .029 | .022 |
| 106817 | 8-32 | 8 | .375 | .069 | .035 | .025 |
| 106797 | 8-32 | 8 | .500 | .079 | .039 | .029 |

Flat Washers

| Part No. | Screw Size | Outer Dia. (in.) | 10 piece multiples | | |
|----------|------------|------------------|--------------------|---------|---------|
| | | | 10 | 100 | 1000 |
| 2094725 | 2 | .188 | \$.079 | \$.059 | \$.039 |
| 211131 | 4 | .237 | .049 | .029 | .015 |
| 106826 | 4 | .281 | .065 | .035 | .019 |
| 106833 | 6 | .373 | .079 | .059 | .039 |
| 106842 | 8 | .375 | .079 | .065 | .055 |
| 2159971 | 3/8 | .625 | .19 | .17 | .15 |
| 2186187 | 7/16 | .650 | .39 | .35 | .29 |

Split Lock Washers

| Part No. | Screw Size | Outer Dia. (in.) | 10 piece multiples | | |
|----------|------------|------------------|--------------------|---------|---------|
| | | | 10 | 100 | 1000 |
| 106789 | 2 | .172 | \$.079 | \$.059 | \$.039 |
| 40977 | 4 | .242 | .079 | .059 | .039 |
| 42463 | 6 | .240 | .059 | .022 | .017 |
| 51609 | 8 | .279 | .069 | .025 | .019 |

*JVP = ValuePro | MOL = Molex | RAF = RAF Elect. Hardware

Hex Female Standoffs

.250" Hex 4-40 Thread (Fig. 2) (A: .250"; B: .187")

| Part No. | *Mfr. | Mfr. Part No. | Length of L | Pricing | | |
|----------|-------|---------------|-------------|---------|--------|--------|
| | | | | 1 | 10 | 100 |
| 77586 | RAF | 4530-440AL7 1 | .250" | \$.35 | \$.29 | \$.25 |
| 77594 | RAF | 4532-440AL7 1 | .375" | .39 | .35 | .29 |
| 111756 | RAF | 4534-440AL7 1 | .500" | .45 | .39 | .29 |
| 139214 | RAF | 4536-440AL7 1 | .625" | .45 | .39 | .29 |
| 139222 | RAF | 4538-440AL7 1 | .750" | .49 | .45 | .35 |
| 139231 | RAF | 4542-440AL7 1 | 1.00" | .49 | .45 | .35 |
| 128566 | RAF | 4546-440AL7 1 | 1.25" | .59 | .49 | .39 |
| 166546 | RAF | 4550-440AL7 1 | 1.50" | .69 | .59 | .49 |

.250" Hex 6-32 Thread (Fig. 2) (A: .375"; B: .250")

| Part No. | *Mfr. | Product No. | Length of L | Pricing | | |
|----------|-------|---------------|-------------|---------|--------|--------|
| | | | | 1 | 10 | 100 |
| 133542 | RAF | 4530-632AL7 1 | .250" | \$.45 | \$.39 | \$.25 |
| 133568 | RAF | 4532-632AL7 1 | .375" | .45 | .39 | .25 |
| 77607 | RAF | 4534-632AL7 1 | .500" | .45 | .39 | .25 |
| 77623 | RAF | 4538-632AL7 1 | .750" | .49 | .45 | .35 |
| 77650 | RAF | 4542-632AL7 1 | 1.00" | .49 | .45 | .35 |

Phillips Pan Head Machine Screws

| Part No. | Thread | Screw Size | Length (in.) | 10 piece multiples | | |
|----------|--------|------------|--------------|--------------------|---------|---------|
| | | | | 10 | 100 | 1000 |
| 2094354 | 2-56 | 2 | .250 | \$.065 | \$.029 | \$.022 |
| 2094371 | 2-56 | 2 | .500 | .065 | .029 | .022 |
| 2185871 | 4-40 | 4 | .187 | .049 | .019 | .015 |
| 2094389 | 4-40 | 4 | .250 | .059 | .025 | .02 |
| 2185889 | 4-40 | 4 | .312 | .049 | .019 | .015 |
| 2094397 | 4-40 | 4 | .375 | .059 | .025 | .02 |
| 2094400 | 4-40 | 4 | .500 | .059 | .025 | .02 |
| 2170231 | 4-40 | 4 | 1.00 | .079 | .069 | .059 |
| 2094418 | 6-32 | 6 | .250 | .079 | .069 | .059 |
| 2094426 | 6-32 | 6 | .375 | .059 | .022 | .017 |
| 2094434 | 6-32 | 6 | .500 | .079 | .069 | .059 |
| 2185900 | 6-32 | 6 | .625 | .045 | .019 | .013 |
| 2094442 | 8-32 | 8 | .250 | .059 | .022 | .017 |
| 2094451 | 8-32 | 8 | .375 | .079 | .069 | .059 |

Hex Nuts

| Part No. | Screw/Thread | Thick (in.) | Hex (in.) | 10 piece multiples | | |
|----------|--------------|-------------|-----------|--------------------|---------|---------|
| | | | | 10 | 100 | 1000 |
| 38165 | 2-56 | .063 | .185 | \$.059 | \$.029 | \$.019 |
| 2197450 | 2-56* | .064 | .183 | .045 | .019 | .015 |
| 40943 | 4-40 | .090 | .243 | .059 | .029 | .019 |
| 42420 | 6-32 | .112 | .306 | .059 | .029 | .019 |
| 51553 | 8-32 | .120 | .335 | .059 | .029 | .019 |
| 2182485 | 1/4-40\$ | .352 | .118 | .89 | .75 | .59 |
| 2185782 | 3/8-32 | .093 | .495 | .15 | .12 | .11 |
| 2203119 | 3/8-32 | .085 | .435 | .19 | .12 | .10 |
| 2182581 | 3/8-32† | .092 | .525 | .39 | .35 | .29 |
| 2192501 | 7/16-32 | .095 | .562 | .59 | .49 | .45 |
| 2086282 | 1/2-28 | .097 | .564 | .45 | .39 | .35 |
| 2203266 | 9/16-27 | .095 | .687 | .69 | .59 | .55 |
| 2230900 | 11/16-27 | .095 | .810 | .99 | .89 | .79 |
| 2230321 | 1-27 | .133 | 1.125 | .99 | .89 | .79 |
| 2228009 | M6XPO.5V | .071 | .317 | .39 | .33 | .25 |
| 2227997 | M6XPO.5 | .0565 | .317 | .39 | .29 | .25 |
| 2203688 | M6XPO.75 | .0565 | .317 | .39 | .29 | .25 |

*Stainless steel †Brass plate V Knurl \$ Beveled

.187" Hex 6-32 Thread (Fig. 2) (A: .375"; B: .250")

| Part No. | *Mfr. | Mfr. Part No. | Length of L | Pricing | | |
|----------|-------|---------------|-------------|---------|--------|--------|
| | | | | 1 | 10 | 100 |
| 393546 | RAF | 4503-632AL7 1 | .375" | \$.45 | \$.39 | \$.35 |
| 393554 | RAF | 4505-632AL7 1 | .500" | .45 | .39 | .35 |

.250" Hex 4-40 Thread (Fig. 1)

| Part No. | *Mfr. | Mfr. Part No. | Length of L | Pricing | | |
|----------|-------|---------------|-------------|---------|--------|--------|
| | | | | 1 | 10 | 100 |
| 139193 | RAF | 2100-440A7 1 | .250" | \$.29 | \$.25 | \$.19 |
| 77501 | RAF | 2102-440AL7 1 | .375" | .35 | .29 | .25 |
| 134763 | RAF | 2103-440AL7 1 | .437" | .39 | .35 | .29 |
| 108371 | RAF | 2104-440AL7 1 | .500" | .39 | .35 | .29 |
| 77519 | RAF | 2106-440AL7 1 | .625" | .39 | .35 | .29 |
| 133605 | RAF | 2108-440AL7 1 | .750" | .39 | .35 | .29 |
| 139205 | RAF | 2112-440A7 1 | 1.00" | .45 | .39 | .35 |

.250" Hex 6-32 Thread (Fig. 1)

| Part No. | *Mfr. | Mfr. Part No. | Length of L | Pricing | | |
|----------|-------|---------------|-------------|---------|--------|--------|
| | | | | 1 | 10 | 100 |
| 133591 | RAF | 2102-632A7 1 | .375" | \$.29 | \$.25 | \$.19 |
| 77543 | RAF | 2104-632AL7 1 | .500" | .35 | .29 | .25 |
| 77552 | RAF | 2106-632AL7 1 | .625" | .45 | .39 | .35 |
| 77570 | RAF | 2108-632AL7 1 | .750" | .45 | .39 | .25 |
| 77578 | RAF | 2112-632AL7 1 | 1.00" | .49 | .45 | .29 |
| 143407 | RAF | 2120-632A7 1 | 1.50" | .59 | .55 | .49 |
| 143441 | RAF | 2124-632AL7 1 | 1.75" | .79 | .69 | .59 |

*RAF Electronic Hardware — Web Code RHS

Internal Tooth Lock Washers

| Part No. | Screw Size | Outer Dia. (in.) | 10 piece multiples | | |
|----------|------------|------------------|--------------------|---------|---------|
| | | | 10 | 100 | 1000 |
| 2094733 | 2 | .200 | \$.079 | \$.059 | \$.039 |
| 106850 | 4 | .258 | .059 | .022 | .017 |
| 106868 | 6 | .277 | .079 | .059 | .039 |
| 106877 | 8 | .323 | .079 | .059 | .039 |
| 2227161 | M7 | .475 | .17 | .14 | .11 |
| 2089803 | 1/2 | .509 | .29 | .25 | .19 |
| 101531 | 3/8 | .500 | .25 | .19 | .15 |
| 527646 | 3/8 | .620 | .29 | .23 | .19 |
| 2159980 | 3/8 | .673 | .17 | .14 | .11 |
| 2203274 | 9/16 | .772 | .19 | .15 | .13 |
| 2230918 | 11/16 | .955 | .99 | .89 | .79 |
| 2203240 | 1.0 | 1.390 | .99 | .89 | .79 |

JAMECO ValuePro

Round Magnets

Perfect for Science, Fridge or Projects

- 2238194: Barrel-shaped, neodymium rare earth magnet with nickel plating, 12.5mm diameter 109031
- 2111425: Nickel-plated with matte finish and magnetized 2181319
- 2181327: Barrel-shaped, neodymium rare earth magnets with nickel plating for durability, 12mm dia. (6-pack)
- 2229589: Dark colored, ceramic donut w/ .090 Dia. hole
- 109031: Dark colored, ceramic donut w/ 0.375" dia. hole
- 2181319: Barrel-shaped, neodymium rare earth magnets with nickel plating for durability, 8mm dia. (10-pack)
- 2192392: Dark colored, barrel shaped neodymium rare magnets, 12.5mm dia.

| Part No. | Size (Dia. x Thick) | 10 piece multiples | | |
|----------|---------------------|--------------------|--------|--------|
| | | 1 | 10 | 100 |
| 2238194 | .492" x .098" | \$.75 | \$.65 | \$.59 |
| 2111425 | .375" x .125" | 1.25 | 1.09 | .99 |
| 2181327 | .480" x .125" | 9.95 | 8.95 | 7.95 |
| 2229589 | .505" x .200" | .89 | .79 | .65 |
| 109031 | 1.23" x .190" | .99 | .89 | .69 |
| 2181319 | 0.31" x .120" | 6.95 | 5.95 | 4.95 |
| 2192392 | .435" x .255" | .79 | .69 | .59 |

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| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Switch, Connector, Potentiometer Panel Mounting Hardware & Rubber Feet

SAE and Metric Panel Mounting Hardware

Hardware sold separately
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2186030



Prepackaged Panel Mounting Hardware Kits

Hardware sold in kits

*Web Code: PAM

2182549



| SAE/Metric Thread | Hex or Knurl Nut Part No. | Flat Washer Part No. | Int. Tooth Washer Part No. | Flat Keyway Washer Part No. | Part No. | Mfr. Part No. | Description | Pricing | | |
|-------------------|---------------------------|----------------------|----------------------------|-----------------------------|---|----------------|-----------------------------|---------|-------|-------|
| | | | | | | | | 1 | 10 | 100 |
| 10-32 UNS | 2183314* | | 2182531* | | 2183322 | 10-32HDWR | (2) nuts (1) washer | \$.69 | \$.59 | \$.49 |
| 10-48 UNS | 578110* | | 2182531* | 2182590*✓ | 2182549 | 10-48HDWR | (2) nuts (2) washers | .89 | .79 | .69 |
| 1/4-32 UNS | 2183331* | 2183381 | 578339* | | 2183349 | 1/4-32HDWR ✓ | (2) nuts (1) washer | .99 | .89 | .79 |
| 1/4-40 UNS | 578321* | 2183381 | 578339* | 578347*✓ | 2182477 | 1/4-40HDWR | (2) nuts (2) washers | .89 | .79 | .69 |
| 1/4-40 UNS | 578321* | 2183381 | 578339* | 2182493*# | 2182805 | 1/4-40HDWR (D) | (2) nuts (2) washers | .89 | .79 | .69 |
| 5/16-32 NEF | 2182784* | 2182792* | 2201527 | | 281852 | 5/16-32HDWR | (2) nuts (1) washer | .69 | .59 | .49 |
| 3/8-32 NEF | 2182514* | 2183293 | 2185791 (small)* | | 2186030 | 3/8-32HDWR ✓ | (2) nuts (1) washer (small) | .69 | .59 | .49 |
| 3/8-32 NEF | 2182514* | 2183293 | 2159980 (large)* | | 2182611 | 3/8-32HDWR | (2) nuts (1) washer (large) | .69 | .59 | .49 |
| 7/16-32 UNS | 2192501* | 2186187* | 527646 | | 2186208 | 7/16-32HDWR | (2) nuts (1) washer | 1.49 | 1.25 | 1.09 |
| 15/32-32 NS | 578371* | 2159963 | 2182557* | 578380*✓ | 2182506 | 15/32-32HDWR | (2) nuts (2) washers | .99 | .89 | .79 |
| 1/2-28 NEF | 740914* | | 527646* | | 2186021 | 1/2-28HDWR | (2) nuts (1) washer | .99 | .89 | .79 |
| M6 x 0.50† | 2183226*§ | 2183234* | | | 2183218 | M6HDWR | (2) nuts (1) washer | .69 | .59 | .49 |
| M7 x 0.75 | 2182629* | 2182637* | 2227161 | 2183411 | 2182688 | M7HDWR | (2) nuts (1) washer | .69 | .59 | .49 |
| M8 x 0.75 | 2182573* | 2182565* | | | 2182602 | M8HDWR | (2) nuts (1) washer | .79 | .69 | .59 |
| M9 x 0.75 | 2182696* | 2182717* | | | 2182709 | M9HDWR | (2) nuts (1) washer | .69 | .59 | .49 |
| M10 x 0.75 | 2159947* | 2183251* | | | 2183242 | M10HDWR | (2) nuts (1) washer | .69 | .59 | .49 |
| M12 x 0.75 | 2182725* | 2183306 | 2182741* | 2182750*✓ | 2182733 | M12HDWR | (2) nuts (2) washers | .99 | .89 | .79 |
| M13 x 0.75 | 2185686 | | | | The parts indicated with "*" on the left are included in the kits on the right. | | | | | |

D style (ID) keyway ✓ O style keyway † Lock washer (option); M6 x 0.50 Hex nut (P/N 2227997) and M6 x 0.75 Hex nut (P/N 2203688) § Knurled nut

Fig. 1

Fig. 2

KEYSTONE Right Angle (L) Mounting Brackets

| Jameco Part No. | Keystone Part No. | Fig. | Dimensions (in.) | | | | | | | | Material | Plating | Pricing | | |
|---|----------------------|------|------------------|------|------|------|------|------|--------|--------|----------|---------|---------|-------|-------|
| | | | A | B | C | D | E | F | G Dia. | H Dia. | | | 1 | 10 | 100 |
| Non-Threaded Clear Hole Universal Mounting Brackets | | | | | | | | | | | | | | | |
| 2203135 | 613 | 2 | .390 | .453 | .375 | .234 | .299 | .032 | .128 | .147 | Brass | Nickel | \$.39 | \$.35 | \$.29 |
| 2203151 | 4335 | 1 | .562 | .562 | .500 | .412 | .411 | .062 | .120 | .120 | Steel | Nickel | .45 | .39 | .29 |
| 2203160 | 618 | 2 | .628 | .628 | .375 | .378 | .378 | .050 | .169 | .169 | Brass | Nickel | .59 | .49 | .39 |
| Threaded Hole Universal Mounting Brackets | | | | | | | | | | | | | | | |
| 2203178 | 612 | 1 | .343 | .375 | .250 | .203 | .250 | .062 | 4-40 | .130 | Steel | Zinc | \$.29 | \$.25 | \$.19 |
| 1581530 | 621 | 1 | .343 | .375 | .250 | .203 | .250 | .062 | 4-40 | 4-40 | Steel | Zinc | .35 | .29 | .25 |
| 2203186 | 616 | 1 | .453 | .312 | .250 | .265 | .187 | .047 | 4-40 | .136 | Brass | Tin | .49 | .45 | .35 |
| 2203194 | 634 | 1 | .375 | .375 | .281 | .218 | .218 | .032 | 6-32 | .140 | Brass | Nickel | .49 | .45 | .39 |
| 2203207 | 614 | 2 | .420 | .343 | .312 | .250 | .197 | .032 | 6-32 | .144 | Brass | Tin | .29 | .25 | .19 |
| 2203223 | 617 | 2 | .578 | .500 | .500 | .328 | .299 | .062 | 6-32 | .165 | Steel | Tin | .49 | .45 | .35 |

Spacers & Electronic Hardware Kit with Component Cabinet

Includes 2700 pcs. (27 Types) Spacer, Hex Nuts Flat, Tooth & Lock Washers and Slotted PH Screws

| 100 each | 100 each | 100 each | 100 each | 100 each | 100 each | |
|----------|-----------------------------------|----------|----------------|------------|-----------------|---|
| Spacers | Hex Nuts | Flat | Internal Tooth | Split Lock | PH Machine | |
| — | 2-56 | #2 | #2 | #2 | 2-56 x 1/4, 1/2 | |
| 4-40 | 4-40 | #4 | #4 | #4 | 4-40 x 1/4, 1/2 | |
| 6-32 | 6-32 | #6 | #6 | #6 | 6-32 x 1/4, 1/2 | |
| 8-32 | 8-32 | #8 | #8 | #8 | 8-32 x 1/4, 1/2 | |
| Part No. | Description | | | | 1 | 5 |
| 108433 | 2700 pcs. Electronic Hardware kit | | | \$79.95 | \$71.95 | |

PCB & Fan Mounting Hardware



| Part No. | Cross Ref. | Size (in.) | Order in multiples of 10 | | |
|----------|------------|------------------|--------------------------|-------|-------|
| | | | Holes | 10 | 100 |
| 1581572 | 904 | Terminal stud #6 | — | \$.19 | \$.15 |
| 28337 | CS1016 | 1.2L x 0.6W | .2" | .15 | .12 |
| 129252 | PCST2 | 0.9L x 0.4Dia. | .2"/.3" | .15 | .12 |
| 2133755 | PCST3C | 0.7L x 0.5W | .1"/.2" | .05 | .04 |
| 2133763 | PCST4C | 0.8L x 0.5W | .1"/.3" | .07 | .05 |
| 156831 | CS-10 | 0.68L x 0.32Dia. | .14" | .15 | .12 |
| 2100064 | SR1036* | 1.5L x 0.38Lip | .167" | .05 | .03 |
| 2188481 | 8825-S# | 0.4L x 0.2W | — | .09 | .07 |
| 2188490 | 8825† | 0.4L x 0.2W | — | .10 | .08 |

*Rubber # Chrome † Black anodize

Instrumentation Handle

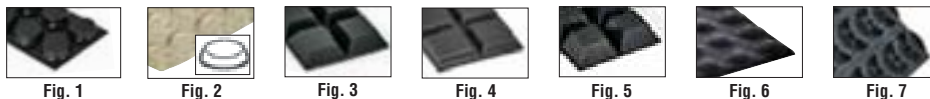
- Black anodized
- 6-32 thread
- Size: 0.250"L x 1.25"H x 0.25"D

| Part No. | Mfr. Part No. | 1 | 10 | 100 |
|----------|---------------|--------|--------|--------|
| 2228421 | 2116-0014 | \$1.95 | \$1.75 | \$1.49 |

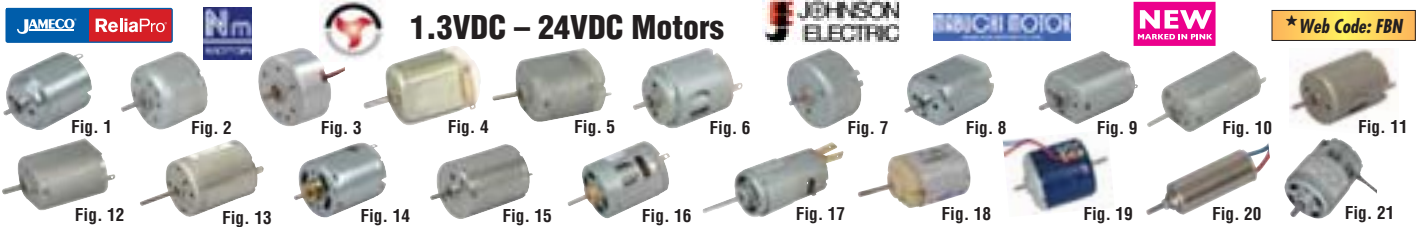
JAMECO ValuePro Adhesive Rubber Feet

*Web Code: FAV

These durable, pressure sensitive, adhesive-backed urethane bumpers adhere quickly, resist marring and staining on surfaces and give excellent skid and abrasion resistance. The sticky bumpers can be applied to any object that needs protection or stabilization. They will reduce vibration and dampen noise when opening or closing objects, as well as hold objects in place. Preserve and extend the life of a product with this selection of rubber feet.



| Part No. | Cross Ref. No. | Type | Fig. | Pack | Size (W" x H") | 1 | 10 | 50 |
|----------|----------------|---|------|------|----------------|--------|--------|--------|
| 2119718 | BS-34-100BL | Black cylindrical | 1 | 100 | .38 x .13 | \$3.95 | \$3.59 | \$3.29 |
| 142658 | SJ5012BLKC | Black cylindrical | 1 | 100 | .50 x .14 | 6.95 | 6.25 | 5.59 |
| 651911 | SJ5312CLR56 | Clear cylindrical | 2 | 56 | .50 x .14 | 5.95 | 5.39 | 4.79 |
| 126981 | SJ5023BLK4 | Black square tapered | 3 | 4 | .81 x .30 | 1.09 | .99 | .85 |
| 142666 | SJ5023BLKC | Black square tapered | 3 | 100 | .81 x .30 | 15.95 | 14.49 | 12.95 |
| 142771 | SJ5008BLKC | Black square tapered | 4 | 100 | .50 x .12 | 7.95 | 6.95 | 6.25 |
| 142682 | SJ5018BLKC | Black square tapered | 5 | 100 | .50 x .23 | 10.95 | 9.95 | 8.95 |
| 2118871 | BS-7-100BL | Black hemisphere | 6 | 100 | .34 x .09 | 2.95 | 2.49 | 1.95 |
| 2185539 | BS-18-CLEAR100 | Clear recessed | 7 | 100 | .50 x .14 | 6.95 | 6.25 | 5.59 |
| 2185571 | BS-44-BLACK100 | Black cylindrical | 1 | 100 | .75 x .16 | 11.95 | 10.95 | 9.95 |
| 2185598 | BS-44-CLEAR100 | Clear cylindrical | 1 | 100 | .75 x .16 | 11.95 | 10.95 | 9.95 |
| 2081385 | GB201 | 100 assorted sizes & types of bumpers & rubber feet | | | | 8.95 | 7.95 | 6.95 |



| Part No. | Manufacturer | Product No. | Fig. | Nominal Voltage (VDC) | Voltage Range (VDC) | Maximum Efficiency | | | Efficiency | Terminal Type | Shaft Dia. (in.) | Shaft Length (in.) | Size Dia. x Depth (in.) | Pricing | | |
|----------|---------------|------------------------|------|-----------------------|---------------------|--------------------|----------------|---------------|------------|------------------|------------------|--------------------|-------------------------|---------|--------|--------|
| | | | | | | Speed (RPM) | Current (Amps) | Torque (g-cm) | | | | | | 1 | 10 | 100 |
| 2209043 | Jinlong | Z4SL2A0000009* | 20 | 1.3 | 1-1.6 | 21000 | 0.05 | 0.3 | 50 | 1" wires | 0.07 | 0.10 | 0.16 x 0.40 | \$1.49 | \$1.25 | \$.99 |
| 231917 | ReliaPro | FE-260-2670 | 1 | 1.5 | 1.5-3 | 3700 | 0.66 | 10.5 | 42.9 | 0.12"/solder | 0.078 | 0.314 | 0.937 x 1.063 | 2.95 | 2.75 | 2.49 |
| 2192755 | Mabuchi Motor | FA130RA-2270# | 18 | 1.5 | 1.5-3 | 6990 | 0.66 | 6.0 | 42.5 | 0.07"/solder | 0.078 | 0.30 | 0.787 x 1.05 | 2.95 | 2.59 | 1.95 |
| 2209094 | Mabuchi Motor | MABUCHI-55 | 19 | 1.5 | 1.5-12 | 1350 | 0.32 | — | 50 | 5" wires | 0.09 | 0.35/0.25 | 1.35 x 1.38 | 1.95 | 1.75 | 1.49 |
| 238465 | ReliaPro | RF-310TA-11400 (CW) | 2 | 2.5 | 1-6 | 2190 | 0.06 | 3.3 | 48.13 | 0.05"/solder | 0.078 | 0.70 | 0.962 x 0.78 | 2.95 | 2.75 | 2.49 |
| 2158442 | Nichibo | RF-500TB-18280-R | 2 | 3 | 1-3 | 2104 | 0.17 | 13.4 | 60 | 0.07"/solder | 0.078 | 0.34 | 1.25 x 0.75 | 2.95 | 2.75 | 2.49 |
| 238458 | ReliaPro | RF-300CA-11400 (CW) | 3 | 3 | 1-6 | 2400 | 0.065 | 4.3 | 56.4 | 3" wires | 0.078 | 0.15 | 0.96 x 0.52 | 3.49 | 2.95 | 2.75 |
| 154915 | Jency Motor | ST130-12240-38 | 4 | 3 | 1.5-3 | 3588 | 0.17 | 7.4 | 55 | 0.09"/solder | 0.08 | 0.37 | 0.79 x 1.13 | 2.49 | 2.25 | 1.95 |
| 1939589 | ReliaPro | FF-130RH-15210 | 5 | 3 | 1-4 | 4280 | 0.17 | 5.8 | 50 | 0.08"/solder | 0.08 | 0.24/0.21 | 0.79 x 0.98 | 2.95 | 2.75 | 2.49 |
| 1951449 | ReliaPro | QJT-260-18130 | 1 | 3 | 1.5-4.5 | 4780 | 0.46 | 10 | 40 | 0.12"/solder | 0.078 | 0.25 | 0.944 x 1.071 | 2.95 | 2.75 | 2.49 |
| 2237765 | Nichibo | FE-260B-20110-LR/46 | 11 | 3 | 1-3 | 5126 | 0.756 | 14.35 | 35.1 | 4" wires | 0.078 | 0.52 | 0.93 x 1.05 | 1.49 | 1.35 | 1.19 |
| 231925 | ReliaPro | FE-260-2295 | 1 | 3 | 1.5-4.5 | 6850 | 0.63 | 14 | 53.9 | 0.12"/solder | 0.078 | 0.25 | 0.937 x 1.063 | 2.75 | 2.49 | 2.25 |
| 2258507 | Mabuchi Motor | RE-260RA-2295# | 1 | 3 | 1.5-4.5 | 7600 | 0.63 | 13.4 | 54.6 | Wire/push-in | 0.08 | 0.22 | 0.9 x 1.0 | 1.95 | 1.75 | 1.49 |
| 154923 | Jency Motor | ST-130-22770 | 4 | 3 | 1.5-3 | 13200 | 0.95 | 10.3 | 40 | 0.09"/solder | 0.08 | 0.37 | 0.79 x 1.13 | 2.49 | 2.25 | 1.95 |
| 211246 | ReliaPro | RC-260RA-2670 | 6 | 4.5 | 3-4.5 | 15290 | 1.43 | 21.8 | 53 | 0.11"/solder | 0.08 | 0.28 | 0.93 x 1.06 | 2.75 | 2.49 | 2.25 |
| 2229976 | Nichibo | FE-2280SB-2295 | 13 | 6 | 1-6 | 7949 | 0.802 | 34.75 | 62 | 0.12"/solder | 0.078 | 0.60 | 0.95 x 1.77 | 3.49 | 2.95 | 2.75 |
| 2173044 | Nichibo | RF-500TB-12560 | 7 | 6 | 6-12 | 2100 | 0.08 | 11 | 58 | 0.08"/solder | 0.078 | 0.342 | 1.259 x 0.767 | 3.95 | 3.49 | 2.95 |
| 2229968 | Nichibo | PC-2280S-2490 | 11 | 7.2 | 3-6-9 | 9823 | 0.982 | 44.65 | 65 | 0.08"/solder | 0.078 | 0.60 | 0.95 x 1.77 | 2.95 | 2.75 | 2.49 |
| 2230037 | Nichibo | RF-500TB-14415 | 7 | 6 | 1-6 | 2755 | 0.164 | 18.2 | 55.16 | 0.77"/solder | 0.078 | 0.345 | 1.25 x 0.67 | 3.95 | 3.49 | 2.95 |
| 231829 | ReliaPro | PC-280-16210 | 8 | 6 | 3-12 | 4260 | 0.28 | 18 | 47.6 | 0.08"/solder | 0.078 | 0.433 | 0.944 x 1.20 | 3.95 | 3.49 | 2.95 |
| 2158434 | Nichibo | RF370CH-22170-R | 13 | 6 | 1-6 | 4787 | 0.45 | 34.28 | 63 | 0.15"/solder | 0.078 | 0.19 | 0.96 x 1.20 | 2.25 | 1.95 | 1.75 |
| 231781 | ReliaPro | PC-130F-12240 | 9 | 6 | 3-9 | 6800 | 0.25 | 7.0 | 33.4 | 0.08"/solder | 0.078 | 0.377 | 0.803 x 0.984 | 4.25 | 3.99 | 3.49 |
| 232144 | ReliaPro | FF-050S-11170 | 10 | 7 | 1.5-9 | 8500 | 0.17 | 7.0 | 51.3 | 0.08"/solder | 0.059 | 0.433 | 0.61 x 1.059 | 2.95 | 2.49 | 2.25 |
| 177498 | ReliaPro | RC280RA-2485 | 11 | 7.2 | 3-14 | 14260 | 1.18 | 33.3 | 57 | 0.11"/solder | 0.08 | 0.43 | 0.95 x 1.20 | 2.95 | 2.75 | 2.49 |
| 2229909 | Arndt | RS-540PH | 14 | 7.2 | 6-8 | 17.317 | 7.75 | 227.5 | 60 | 0.15"/solder | 0.125 | 0.625 | 1.45 x 1.27 | 4.95 | 4.59 | 3.95 |
| 2258574 | Nichibo | HP5FN-55155-R/72.5 | 15 | 10.8 | 1.20-12 | 18450 | 7.69 | 305 | 71 | 0.28"/solder | 0.12 | 0.53 | 1.42 x 1.97 | 2.95 | 2.49 | 1.95 |
| 174693 | ReliaPro | 21226-384221 | 13 | 12 | 9-14 | 3000 | 0.015 | 85.06 | — | 0.11"/solder | 0.08 | 0.71 | 0.97 x 1.19 | 3.49 | 2.95 | 2.75 |
| 2209203 | Nichibo | MC5BN-12200 | 14 | 12 | 2-20 | 3203 | 0.201 | 36.05 | 50.9 | 5" wires | 0.09 | 1.00 | 1.09 x 1.29 | 2.95 | 2.49 | 2.25 |
| 2224024 | Nichibo | KP5FN-3255-R | 15 | 12 | 1-20 | 4348 | 1.19 | 1660 | 72 | 0.15"/quick conn | 0.12 | 0.49 | 1.4 x 2.2 | 5.95 | 5.49 | 4.95 |
| 2211101 | Nichibo | RF370CH-15370-R | 15 | 12 | 1.6-16 | 4378 | 0.19 | 31 | 62 | 0.15"/solder | 0.08 | 0.42 | 0.995 x 1.25 | 1.95 | 1.75 | 1.49 |
| 231732 | ReliaPro | PC-130SF-09480 | 9 | 12 | 6-24 | 4800 | 0.11 | 12.3 | 49.6 | 0.08"/solder | 0.078 | 0.377 | 0.803 x 0.984 | 3.95 | 3.49 | 2.95 |
| 238473 | Mabuchi Motor | RF-370CA-15370 | 15 | 12 | 3-12 | 4840 | 0.17 | 25.3 | 75 | 0.08"/solder | 0.078 | 0.346 | 0.96 x 1.213 | 3.49 | 2.95 | 2.75 |
| 206949 | Nichibo | QJT360S14280 | 16 | 12 | 9-30 | 4930 | 0.35 | 44.5 | 52 | 0.11"/solder | 0.09 | 0.45 | 1.09 x 1.30 | 3.49 | 2.95 | 2.75 |
| 231896 | ReliaPro | FE-260-08450 | 1 | 12 | 6-12 | 5560 | 0.11 | 10.3 | 46.6 | 0.12"/solder | 0.078 | 0.314 | 0.937 x 1.063 | 3.49 | 2.95 | 2.75 |
| 2167681 | Nichibo | DC-130SB-10410 | 18 | 12 | 6-12 | 5624 | 0.2 | 18.17 | 47 | Plug-in | 0.09 | 0.519 | 0.78 x 1.00 | 1.49 | 1.25 | .99 |
| 2217810 | Nichibo | JD5B-2655W-R† | 14 | 12 | 1-18 | 6468 | 0.93 | 122.8 | 74 | 0.11"/solder | 0.09 | 0.33/0.22 | 1.18 x 1.83 | 2.95 | 2.49 | 2.25 |
| 2188844 | Nichibo | FK-050SHB-07295-R | 9 | 12 | 3-19 | 6784 | 0.12 | 9.21 | 47 | 0.09"/solder | 0.05 | 0.20 | 0.61 x 1.05 | 1.25 | 1.09 | .95 |
| 2167592 | Nichibo | LS5BFN-2465 | 14 | 12 | 6-18 | 7205 | 0.75 | 83.3 | 72 | 0.11"/solder | 0.09 | 0.54 | 1.09 x 1.48 | 2.95 | 2.49 | 2.25 |
| 2217781 | Nichibo | PC260SB-14280-NR | 5 | 12 | 12-18 | 7524 | 0.25 | 23.2 | 61 | 0.08"/solder | 0.078 | 0.43 | 0.96 x 1.06 | 1.95 | 1.75 | 1.49 |
| 2227372 | Nichibo | DC-280-ST-18180P** | 9 | 12 | 1-19 | 8163 | 0.48 | 42.70 | 62.8 | Wire/push-in | 0.078 | 0.35 | 0.90 x 1.20 | 1.95 | 1.75 | 1.59 |
| 2209140 | Mabuchi Motor | FK-260SA-14280 | 5 | 12 | 12-24 | 8600 | 0.063 | 14.8 | 55 | 3.5" wires | 0.08 | 0.43 | 0.96 x 1.06 | 2.95 | 2.75 | 2.49 |
| 2258515 | Nichibo | 770-7040AS-R/94 | 17 | 12 | 1.7-17 | 8703 | 7.437 | 753 | 79 | 0.34"/solder | 0.16 | 0.58 | 1.77 x 2.60 | 3.95 | 3.49 | 2.95 |
| 232022 | ReliaPro | MD5-1885 | 14 | 12 | 6-18 | 9820 | 0.74 | 53.5 | 60.7 | 0.11"/solder | 0.091 | 0.622 | 1.082 x 1.279 | 3.49 | 2.95 | 2.75 |
| 2258531 | Nichibo | DC-280ST-1915PAS/50 | 8 | 12 | 1.50-15 | 10235 | 0.653 | 49.38 | 67 | 0.09"/solder | 0.06 | 0.6 | 0.95 x 1.26 | 1.95 | 1.75 | 1.49 |
| 2258523 | Nichibo | FK-180SH-18130-R/42 | 10 | 12 | 2-20 | 11806 | 0.762 | 44.24 | 61 | 0.16"/solder | 0.079 | 0.18 | 0.61 x 1.30 | 1.95 | 1.75 | 1.49 |
| 232040 | ReliaPro | MD5-2070 | 14 | 12 | 6-12 | 12586 | 1.3 | 52 | 62.7 | 0.12"/solder | 0.091 | 0.48 | 1.082 x 1.279 | 2.95 | 2.75 | 2.49 |
| 2210845 | Nichibo | 775-7013F-R | 13 | 12 | 1-12 | 12610 | 13.52 | 93.7 | 76 | 0.19"/solder | 0.19 | 0.57 | 1.77 x 2.59 | 2.95 | 2.59 | 2.29 |
| 2208833 | Nichibo | UC-130S-18149PW\$ | 14 | 12 | 6-12 | 16234 | 0.98 | 35.93 | 52 | 0.08"/solder | 0.07 | 0.31/0.43 | 0.78 x 1.00 | 2.95 | 2.49 | 1.95 |
| 2208841 | Nichibo | UC-130S-19133PW\$ | 14 | 12 | 6-12 | 18587 | 1.18 | 41.5 | 56 | 0.08"/solder | 0.078 | 0.31/0.43 | 0.78 x 1.00 | 3.95 | 3.49 | 2.95 |
| 2258540 | Nichibo | KC3SFN-8021F/75 | 6 | 12 | 1.5-15 | 19455 | 16.09 | 648 | 68 | 0.28"/solder | 0.51 | 0.33 | 1.50 x 2.51 | 3.95 | 3.49 | 2.95 |
| 232047 | ReliaPro | MD5-2445 | 14 | 12 | 6-12 | 19850 | 2.05 | 79.7 | 66 | 0.12"/solder | 0.091 | 0.622 | 1.082 x 1.279 | 4.95 | 4.49 | 3.95 |
| 2208850 | Nichibo | UC-130S-22103PW\$ | 14 | 12 | 6-12 | 25253 | 1.48 | 33.20 | 50 | 0.08"/solder | 0.078 | 0.31/0.43 | 0.78 x 1.00 | 3.95 | 3.49 | 2.95 |
| 2167699 | Nichibo | 775-8511FAS | 14 | 14.4 | 6-14.4 | 17606 | 18.05 | 1038 | 73 | 0.19"/solder | 0.157 | 0.74 | 1.77 x 2.59 | 5.95 | 4.95 | 4.49 |
| 2217801 | Nichibo | MS5BN-1980-R†† | 14 | 18 | 1-18 | 15432 | 1.05 | 78.9 | 68 | 0.11"/solder | 0.09 | 0.511 | 1.06 x 1.27 | 1.95 | 1.75 | 1.49 |
| 2258785 | Nichibo | 736-8017F-R-CE-IE/76 | 21 | 18 | 1-18 | 17794 | 18.58 | 134 | 74 | 2.0"/wires | 0.197 | 0.55 | 1.70 x 2.10 | 12.95 | 11.95 | 10.95 |
| 2258558 | Nichibo | DC-130S-06840-NR/42 | 18 | 24 | 3.0-30 | 5615 | 0.069 | 13.56 | 50 | 0.09"/solder | 0.08 | 0.53 | 0.80 x 1.04 | 1.95 | 1.75 | 1.25 |
| 2218011 | Mabuchi Motor | RS385PH-29505 | 13 | 24 | 12-30 | 7420 | 0.41 | 84.6 | 55 | 0.11"/solder | 0.09 | 0.96 | 1.08 x 1.49 | 1.95 | 1.75 | 1.49 |
| 2192421 | Nichibo | HP5BFN-2670-R†† | 14 | 24 | 1.5-28 | 9346 | 1.05 | 193 | 74 | 0.15"/solder | 0.12 | 0.47 | 1.40 x 1.93 | 1.95 | 1.75 | 1.49 |
| 2188828 | Nichibo | PC-130SBF-10400TB-R/48 | 12 | 24 | 1-34 | 10823 | 0.24 | 25.4 | 48.8 | 0.11"/solder | 0.07 | 0.65 | 0.8 x 0.98 | 1.95 | 1.75 | 1.49 |
| 2188836 | Nichibo | PC-130SBF-10400TB-R/55 | 12 | 24 | 1-34 | 10823 | 0.24 | 25.4 | 48.8 | 0.08"/solder | 0.07 | 1.02 | 0.8 x 0.98 | 1.49 | 1.25 | .99 |

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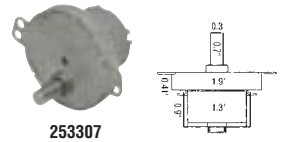
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32GM Series

| Part No. | Mfr. Part No. | Rated Voltage (VDC) | @ Maximum Efficiency | | | Gear Ratio | Gear Case Size Dia. x Height (in.) | Motor Size Dia. x Depth (in.) | Shaft Size Dia. x Length (in.) | Pricing | | |
|----------|---------------|---------------------|----------------------|--------------|---------------|------------|------------------------------------|-------------------------------|--------------------------------|---------|---------|---------|
| | | | Speed (RPM) | Current (mA) | Torque (g-cm) | | | | | 1 | 5 | 25 |
| 2146505 | B32-6V3.1RPM | 6 | 2 | 90 | 7350 | 340:1 | 1.9 x 0.41 | 1.3 x 0.9 | .28 x .87 | \$14.95 | \$13.95 | \$12.95 |
| 253307 | B32-6V9RPM | 6 | 8 | 38 | 1200 | 150:1 | 1.9 x 0.41 | 1.3 x 0.9 | .30 x .70 | 14.95 | 12.95 | 10.95 |



253307

32GM Series

38GM Series

| | | | | | | | | | | | | | |
|--------|--------|----|-----|------|------|-------|------------|-----------|-----------|--|---------|---------|---------|
| 253534 | 38-010 | 12 | 24 | 97 | 7500 | 250:1 | 1.46 x 1.0 | 1.3 x 0.9 | .24 x .50 | | \$16.95 | \$14.95 | \$13.49 |
| 253518 | 38-008 | 12 | 40 | 87.5 | 4800 | 150:1 | 1.46 x 1.0 | 1.3 x 0.9 | .24 x .50 | | 16.95 | 14.95 | 13.49 |
| 253500 | 38-007 | 12 | 66 | 80 | 3200 | 100:1 | 1.46 x 0.7 | 1.3 x 0.9 | .24 x .50 | | 17.95 | 15.95 | 13.95 |
| 253489 | 38-005 | 12 | 104 | 220 | 600 | 56:1 | 1.46 x 0.7 | 1.3 x 0.9 | .24 x .50 | | 14.95 | 13.49 | 11.95 |
| 253471 | 38-004 | 12 | 115 | 220 | 600 | 50:1 | 1.46 x 0.7 | 1.3 x 0.9 | .24 x .50 | | 15.95 | 14.49 | 12.95 |
| 253446 | 38-001 | 12 | 600 | 61.8 | 350 | 10:1 | 1.46 x 0.7 | 1.3 x 0.9 | .24 x .50 | | 16.95 | 15.95 | 14.95 |

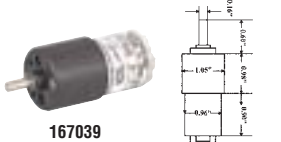


253446

38GM Series

Nichibo Gear Head Motors

| | | | | | | | | | | | | | |
|---------|----------------|----|------|-----|-------|-------|-------------|-----------|-----------|--|---------|---------|--------|
| 2192878 | RK-520-17310-R | 12 | 104 | 423 | 1749 | 50:1 | 1.46 x 1.19 | 1.3 x 0.9 | .21 x .60 | | \$12.95 | \$11.49 | \$9.95 |
| 2197476 | MD3B-14280-R | 12 | 5214 | 327 | 42.89 | 180:1 | 1.45 x 1.06 | 1.1 x 1.3 | .24 x .30 | | 3.95 | 3.59 | 3.29 |

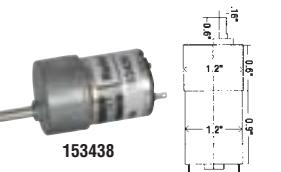


167039

HN27GD Series

HN27GD Series

| Part No. | Mfr. Part No. | Rated Voltage (VDC) | Operating Range (VDC) | @ Maximum Efficiency | | | Gear Ratio | Gear Case Size Dia. x Length (in.) | Motor Size Dia. x Depth (in.) | Shaft Size Dia. x Length (in.) | Pricing | | |
|----------|---------------|---------------------|-----------------------|----------------------|--------------|---------------|------------|------------------------------------|-------------------------------|--------------------------------|---------|---------|---------|
| | | | | Speed (RPM) | Current (mA) | Torque (g-cm) | | | | | 1 | 5 | 25 |
| 167039 | GH12-0953Y | 12 | 4.5 - 24 | 9 | 90 | 1200 | 188:1 | 1.1 x 1.0 | 1.0 x 0.9 | .16 x .43 | \$17.95 | \$15.95 | \$14.49 |



153438

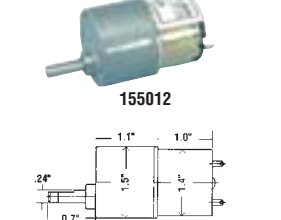
GH30GM Series

GH30GM Series

| | | | | | | | | | | | | | |
|--------|-----------------|----|----------|-----|-----|-----|-------|-----------|-----------|-----------|---------|---------|---------|
| 153438 | HN-GH12-1045Y-R | 12 | 3.0 - 12 | 13 | 96 | 800 | 200:1 | 1.1 x 0.6 | 0.9 x 1.0 | .16 x .57 | \$15.95 | \$14.49 | \$12.95 |
| 162191 | HNGH12-1324Y-R | 12 | 4.5 - 12 | 190 | 145 | 300 | 30:1 | 1.1 x 0.6 | 1.0 x 0.9 | .16 x .57 | 17.95 | 15.95 | 14.49 |

GH35GM Series Plastic Gears

| | | | | | | | | | | | | | |
|--------|--------------|----|----------|-----|-----|------|--------|------------|-----------|-----------|---------|---------|---------|
| 155012 | GH12-1926 | 12 | 4.5 - 12 | 1.3 | 66 | 6000 | 3000:1 | 1.4 x 1.0 | 1.3 x 1.0 | .23 x .70 | \$21.95 | \$20.95 | \$19.95 |
| 155821 | GH12-1830Y-P | 12 | 4.5 - 12 | 3 | 76 | 4500 | 1000:1 | 1.4 x 0.9 | 1.3 x 1.0 | .23 x .70 | 24.95 | 22.49 | 19.95 |
| 155839 | GH12-1641T-L | 12 | 3.0 - 12 | 17 | 141 | 3000 | 270:1 | 1.4 x 0.75 | 1.3 x 1.0 | .23 x .70 | 25.95 | 23.49 | 20.95 |
| 152911 | GH12-1926Y | 12 | 4.5 - 12 | 40 | 206 | 2370 | 100:1 | 1.4 x 0.6 | 1.3 x 1.2 | .24 x .90 | 24.95 | 22.49 | 19.95 |
| 161382 | GH12-1634T | 12 | 4.5 - 12 | 60 | 306 | 850 | 30:1 | 1.4 x 0.6 | 1.3 x 1.0 | .23 x .70 | 25.95 | 23.49 | 20.95 |
| 164786 | GH12-1640Y | 12 | 4.5 - 24 | 222 | 166 | 300 | 10:1 | 1.4 x 0.6 | 1.3 x 1.0 | .23 x .70 | 24.95 | 22.49 | 19.95 |
| 176050 | GH12-1640Y00 | 24 | 12 - 24 | 1.7 | 71 | 6000 | 3000:1 | 1.4 x 0.6 | 1.3 x 1.0 | .23 x .70 | 24.95 | 22.49 | 19.95 |



155012

GH35GM Series Metal Gears

| | | | | | | | | | | | | | |
|---------|-------------------|----|-----------|-----|-----|------|--------|-----------|-----------|-----------|---------|---------|---------|
| 2150491 | RS003A | 6 | 2.0 - 7.5 | 133 | 350 | 8800 | 75:1 | .98 x 0.9 | .97 x 1.2 | .16 x .38 | \$12.95 | \$11.95 | \$10.95 |
| 2150504 | RS003B | 6 | 2.0 - 7.5 | 293 | 350 | 4000 | 34:1 | .98 x .83 | .96 x 1.2 | .16 x .38 | 12.95 | 11.95 | 10.95 |
| 155013 | HN-GH121926Y-R | 12 | 4.5 - 12 | 2 | 250 | 6000 | 3000:1 | 1.3 x 0.9 | 1.5 x 1.1 | .23 x .90 | 24.95 | 22.95 | 19.95 |
| 155822 | GH12-1830Y-P-R-M | 12 | 4.5 - 12 | 4.5 | 250 | 4500 | 1000:1 | 1.3 x 0.9 | 1.5 x 1.0 | .23 x .90 | 21.95 | 19.95 | 17.95 |
| 151442 | HN-GH12-1632T-R-M | 12 | 4.5 - 12 | 57 | 275 | 2200 | 100:1 | 1.3 x 0.9 | 1.5 x 0.7 | .23 x .90 | 23.95 | 21.49 | 19.49 |



2150491/2150504

155013

GH35GM Series



JAMECO ReliaPro

Pololu



Specialty Gear Motors



2150432

400995

2128219

213488

| Part No. | Mfr. | Product No. | Rated Voltage | Operating Range | Speed (RPM) | Current (mA) | Torque (g-cm) | Gear Ratio | Size (L" x W" x H") | Shaft Size Dia. x Length (in.) | Special Feature | Pricing | | |
|----------|-------------|-------------|---------------|-----------------|-------------|--------------|---------------|------------|---------------------|--------------------------------|----------------------------------|---------|--------|--------|
| | | | | | | | | | | | | 1 | 5 | 25 |
| 2150432 | Dagu | DG01D | 4.5 VDC | 4.5 VDC | 90 | 190 | 800 | — | 2.5 x 1.5 x 0.9 | 0.21 x 0.31 | Motor pair with 90° shaft | \$7.95 | \$6.95 | \$5.95 |
| 2260834 | Dagu | DG01D* | 4.5 VDC | 4.5 VDC | 90 | 190 | 800 | — | 2.5 x 1.5 x 0.9 | 0.21 x 0.31 | Motor pair with 90° shaft | 8.95 | 7.95 | 6.95 |
| 400995 | Solarbotics | GM8 | 6 VDC | 3-6 VDC | 78 | 57 | 5500 | 143 | 2.17 x 1.89 x 0.91 | 0.28 x 0.20 | Offset/inline plastic gear motor | 5.95 | 5.49 | 4.95 |
| 2128219 | Pololu | 1101 | 6 VDC | 6 VDC | 320 | 80 | 2200 | 100 | 0.94 x 0.39 x 0.47 | 0.12 x 0.35 | Mini Gear motor | 14.95 | 13.95 | 12.95 |
| 2238101 | Pololu | 2827 | 12 VDC | 6-12 VDC | 80 | 250 | 18000 | 131 | 2.71 x 1.45 x 1.45 | 0.24 x 0.52 | 64 CPR encoder | 34.95 | 32.95 | 29.95 |
| 213488 | JRP | 50TYZ-R | 120 VAC | 100-120 VAC | 6 | 40 | 6700 | — | 2.0 x 2.0 x 1.0 | 0.28 x 0.52 | Clockwise rotation | 12.95 | 11.49 | 9.95 |

* With 6" leads and crimp pins

GRAB BAGS

| Part No. | Description | No. of Pieces | Wt. (lbs.) | 1 | 10 |
|----------|---------------------|---------------|------------|--------|--------|
| 18294 | Toy motors grab bag | 5 | 0.5 | \$7.95 | \$6.95 |
| 55968 | Hardware grab bag | 100 | 0.3 | 14.95 | 12.95 |



18294



55968

Vibrating Motors & Stepper Motors

JAMECO ReliaPro

1.3VDC & 3VDC Vibrating Motors

- Typical applications: cellular phones, pagers and toys

NEW
MARKED IN PINK

*Web Code: NBC



| Part No. | Cross Ref. No. | Fig. | Operating Voltage (VDC @ mA) | Operating Range (VDC) | Rated RPM @ VDC | Lead Length (in.) | Motor Size (A x B) (Dia. x Depth) | Shaft Size (C x D) (Dia. x Length) | Pricing | | |
|----------|---------------------|------|---------------------------------|--------------------------|--------------------|----------------------|--------------------------------------|---------------------------------------|---------|--------|--------|
| | | | | | | | | | 1 | 10 | 100 |
| 175062 | OTL-7AL | 1 | 1.3 @ 62 | 0.70 - 1.60 | 7000 @ 1.3 | 0.7 | 0.28 x 0.67 | 0.10 x 0.18 | \$3.95 | \$3.49 | \$2.95 |
| 256306 | 6ZK003 | 2 | 1.3 @ 80 | 0.85 - 1.60 | 8500 @ 1.3 | 1.0 | 0.23 x 0.39 | 0.10 x 0.10 | 2.95 | 2.65 | 2.25 |
| 256322 | 6ZK211 | 3 | 1.3 @ 80 | 0.80 - 1.60 | 8500 @ 1.3 | PC terminal | 0.27 x 0.48 | 0.11 x 0.11 | 2.75 | 2.49 | 2.25 |
| 2230838 | C1226A001F | 4 | 1.3 @ 100 | 1.10 - 1.60 | 9000 @ 1.3 | 1.0 | 0.47 x 0.11 | No shaft | 2.95 | 2.65 | 2.25 |
| 2209035 | 24SL2A0280131 | 2 | 1.3 @ 85 | 1.10 - 1.60 | 10000 @ 1.3 | 1.0 | 0.18 x 0.40 | 0.20 x 0.15 | 2.95 | 2.65 | 2.35 |
| 256365 | 7ZK692 | 2 | 3.0 @ 60 | 2.40 - 3.00 | 6500 @ 3.0 | 4.7 | 0.28 x 0.66 | 0.18 x 0.22 | 3.95 | 3.49 | 2.95 |
| 256382 | 7ZK681 | 2 | 3.0 @ 60 | 2.40 - 3.60 | 7500 @ 3.0 | 1.1 | 0.28 x 0.66 | 0.12 x 0.16 | 3.95 | 3.49 | 2.95 |
| 2230184 | Z6DL2B0055211 | 5 | 3.0 @ 70 | 2.40 - 3.60 | 11000 @ 3.0 | 0.875 | 0.27 x 1.00 | No shaft | 3.95 | 3.49 | 2.95 |
| 256314 | 6ZK053-R | 2 | 3.0 @ 75 | 1.60 - 3.60 | 8500 @ 3.0 | 1.0 | 0.15 x 0.10 | 0.15 x 0.10 | 3.25 | 2.95 | 2.65 |
| 2237781 | 6ZK053-R* | 2 | 3.0 @ 75 | 1.60 - 3.60 | 8500 @ 3.0 | 1.0 | 0.15 x 0.10 | 0.15 x 0.10 | 3.25 | 2.95 | 2.65 |
| 256331 | 6ZK261 | 3 | 3.0 @ 75 | 2.40 - 3.00 | 8500 @ 3.0 | PC terminal | 0.27 x 0.48 | 0.11 x 0.11 | 3.25 | 2.95 | 2.65 |
| 2189476 | C1034B98FR | 4 | 3.0 @ 80 | 2.50 - 4.00 | 9000 @ 3.0 | 1.0 | 0.39 x 0.13 | No shaft | 3.49 | 3.25 | 2.95 |
| 2218169 | JL1027-001021-30-01 | 4 | 3.0 @ 85 | 1.20 - 3.00 | 12000 @ 3.0 | 1.0 | 0.39 x 0.10 | No shaft | 3.95 | 3.59 | 3.25 |

*With crimp pins

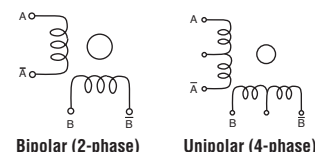
JAMECO ReliaPro

4VDC to 24VDC Bipolar & Unipolar Stepper Motors

Jameco offers the industry's widest variety of off-the-shelf two-phase bipolar and four-phase unipolar stepper motors for your precision applications. Be sure to check out the wide selection of 4 to 24VDC models below.

- Dielectric strength: 500V, 50Hz/minute
- Insulation resistance: 100MΩ @ 500VDC
- Use P/N 161998 (below) for shaft coupler
- Ambient temp.: -10°C to +55°C
- 18" lead wires
- Ball bearings

*Web Code: UBN



Electromech



| Part No. | Product No. | Fig. | Drive System | Rated Voltage (VDC) | Step Angle (°/step) | Phase Resis. (Ω) | Curr. (mA) | Phase Inductance (mH) | Detent Torque (g-cm) | Holding Torque (g-cm) | Mounting Hole Space (in.) | Mounting Holes (in.) | Shaft Dia. (in.) | Shaft Length (in.) | Motor Dia. (in.) | Motor Depth (in.) | Wt. (lbs.) | Pricing | | |
|----------|----------------|------|--------------|------------------------|------------------------|---------------------|---------------|--------------------------|-------------------------|--------------------------|------------------------------|-------------------------|---------------------|-----------------------|---------------------|----------------------|---------------|---------|---------|---------|
| | | | | | | | | | | | | | | | | | | 1 | 5 | 25 |
| 237607 | 57BYGH001 | 1 | Unipolar | 5 | 1.8 | 5 | 1000 | — | 135 | 3976 | 1.86 | 0.20 | 0.25 | 0.83 | 2.24 | 1.61 | 1.10 | \$29.95 | \$27.95 | \$24.95 |
| 237825 | 25BY4801 | 3 | Unipolar | 5 | 7.5 | 10 | 500 | — | 45 | 110 | 1.38 | 0.14 | 0.08 | 0.35 | 0.98 | 0.56 | 0.07 | 9.95 | 8.95 | 7.95 |
| 237631 | 57BYGH803 | 1 | Unipolar | 6.3 | 1.8 | 4.2 | 1500 | — | — | 14276 | 1.86 | 0.20 | 0.25 | 0.83 | 2.24 | 2.99 | 2.43 | 39.95 | 37.95 | 34.95 |
| 2138812 | 35BY48I030-01 | 4 | Unipolar | 7 | 7.5 | 20 | 350 | 11 | 125 | 450 | 1.59 | 0.12 | 0.078 | 0.47 | 1.37 | 0.85 | 0.22 | 8.95 | 7.95 | 6.95 |
| 155433 | 42BYG228 | 5 | Unipolar | 12 | 1.8 | 30 | 400 | 23 | 220 | 2000 | 1.73 | 0.10 | 0.20 | 0.90 | 1.70 | 1.50 | 0.50 | 20.95 | 18.95 | 16.95 |
| 238538 | 42BYGH404 | 6 | Unipolar | 12 | 1.8 | 30 | 400 | 25 | 250 | 3200 | 1.22 | 0.10 | 0.20 | 0.95 | 1.67 | 1.89 | 0.60 | 21.95 | 19.95 | 17.95 |
| 162027 | 57BYG084 | 2 | Unipolar | 12 | 1.8 | 20 | 600 | 22 | 725 | 6000 | 2.65 | 0.20 | 0.25 | 1.00 | 2.20 | 2.00 | 1.30 | 35.95 | 32.25 | 28.95 |
| 237490 | 39BYG001 | 5 | Bipolar | 5 | 1.8 | 5 | 1000 | 5 | 200 | 1800 | 1.22 | 0.10 | 0.20 | 0.83 | 1.54 | 1.34 | 0.44 | 21.95 | 19.95 | 17.95 |
| 2158531 | STP-42D201-37† | 7 | Bipolar | 12 | 1.8 | 1.55 | 1700 | 5 | 163 | 3200 | 1.22 | 0.15 | 0.19 | 0.68 | 1.65 | 1.49 | 0.60 | 5.95 | 5.39 | 4.79 |
| 155460 | 42BYG023* | 5 | Bipolar | 12 | 1.8 | 30 | 400 | 36 | 220 | 2100 | 1.73 | 0.10 | 0.20 | 0.60 | 1.70 | 1.30 | 0.50 | 21.95 | 19.95 | 17.95 |
| 237472 | 39BYG401A | 5 | Bipolar | 12 | 1.8 | 30 | 400 | 32 | 200 | 2100 | 1.22 | 0.10 | 0.20 | 0.95 | 1.54 | 1.34 | 0.44 | 18.95 | 17.95 | 15.95 |
| 2158557 | M25SP-5N† | 8 | Bipolar | 24 | 7.5 | 50 | 550 | — | 177 | 183 | 1.25 | 0.27 | 0.08 | 0.22 | 1.25 | 0.53 | 0.06 | 1.95 | 1.75 | 1.49 |
| 2209254 | PM55L-048-ZXX3 | 9 | Bipolar | 24 | 7.5 | 5.5 | 800 | — | 1400 | 1600 | 2.50 | 0.13 | 0.25 | 0.62 | 2.16 | 1.00 | 0.60 | 3.95 | 3.49 | 2.95 |

*155460: Dual shaft † Mfr.: 2158531: Shinano Kenshi; 2158557: Mitsumi

JAMECO ReliaPro

Spider Couplers

- Used with motors
- 1 set screw per hub
- Hub OD: 0.625" Dia.
- Hub length: 0.56"
- Parts sold individually



*Web Code: EBE

| Part No. | Description | 1 | 10 | 100 |
|----------|-----------------------|--------|--------|--------|
| 162288 | .125" (3.18mm) ID hub | \$1.95 | \$1.75 | \$1.25 |
| 2220331 | .135" (3.50mm) ID hub | 1.49 | 1.25 | 1.09 |
| 161998 | .197" (5.00mm) ID hub | 1.95 | 1.75 | 1.49 |
| 162270 | .250" (6.35mm) ID hub | 1.95 | 1.75 | 1.49 |
| 162000 | Rubber spider | 1.95 | 1.75 | 1.49 |

*Rotary Switches — Enter Web Code TMU

*Arduino Shields — Enter Web Code AOS

CLIMAX

Spider Shaft Coupler

- 2 set screws (10-32 x 1/8)
- Size: 0.75"L x 0.5"OD

*Web Code: EBE

| Part No. | Description | 1 | 5 | 25 |
|----------|-------------------------|--------|--------|--------|
| 138288 | .250" ID sleeve coupler | \$7.95 | \$7.25 | \$6.49 |

JAMECO ValuePro

10-Piece Gear Assortment

- Polyethylene resin
- Gears are 0.147" bore size
- Bushings are 0.07" bore diameter
- T10, T20, T30, T40, T50 and bushing

| Part No. | Description | 1 | 10 | 25 |
|----------|----------------------|--------|--------|--------|
| 1810072 | Gear set - 10 pieces | \$6.95 | \$6.25 | \$5.95 |

JAMECO ValuePro

7-Piece Plastic Gear Assortment



- Unbreakable plastic gears
- Teeth -12, 20, 30, 40 +3 bushings
- Beveled gears are 41, 31, 21mm diameter
- Bushings reduce bore size to 3mm
- Spur beveled

| Part No. | Description | 1 | 10 | 25 |
|----------|---------------------|--------|--------|--------|
| 2227680 | Gear set - 7 pieces | \$4.95 | \$4.49 | \$3.95 |

*Terminal Blocks — Enter Web Code XBD

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Stepper & Servo Motor Controllers

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

ROBOT 2-Amp Dual-Channel Motor Controller

This motor controller uses the high-power L298N motor driver chip, which allows for direct drive of 2 bidirectional DC motors. It can drive up to 2A of current per motor and uses a broad brush design to reduce wire resistance.

- Logic input voltage: 6V-12V (at 36mA)
- Drive input voltage: 4.8V-46V (at 2A)
- Max. power dissipation: 25W
- Drive type: dual high-power H-bridge driver
- Operating temperature: -25°C to +130°C

| Part No. | Mfr. Part No. | Size (L" x W" x H") | Wt. (oz.) | 1 | 5 |
|----------|---------------|---------------------|-----------|---------|---------|
| 2159411 | DRI0002 | 1.9 x 2.1 | 1.03 | \$22.95 | \$20.95 |



KAE Industrial Motion Controllers for Brush, Brushless & Stepper Motors

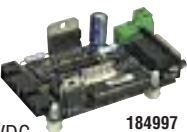
323942: • For brush-type DC motors with 2 or 3 channel incremental encoders

- P.I.D. Servo control, trapezoidal position profiling, velocity mode, 32-bit resolution
- Integrated 12 to 48VDC supply power amplifier @ 3A continuous, 6A peak
- Limit switch inputs, general purpose analog input, PWM, DIR output for use with external amps

323951: • For 3-phase brushless motors with Hall effect sensors or conventional DC brush-type motors

- Amplifier capable of driving 6A continuously @ up to 48VDC
 - High current amplifier: 7A continuous, 10A peak, 12 to 48VDC supply
 - Support for linear & circular interpolation using the PIC-SERVO CMC chipset
- 184997:** • Trapezoidal position profiling, velocity mode, up to 50,000 steps/sec.
- Full/half step bipolar chopper drive, 2A per phase, 7.5 to 46VDC supply
 - Integrated indexer and driver for 2 or 4 phase stepper motors

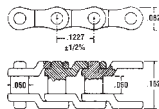
| Part No. | Description | Size (L" x W" x H") | 1 | 5 |
|----------|---------------------------------------|---------------------|----------|----------|
| 323942 | PIC-SERVO motor control board | 3.1 x 2.1 x 0.9 | \$159.95 | \$154.95 |
| 323951 | PIC-SERVO 3-phase motor control board | 3.1 x 3.1 x 0.9 | \$239.95 | \$227.95 |
| 184997 | PIC-STEP motor control board | 3.1 x 2.1 x 0.9 | \$159.95 | \$151.95 |



Electromech

ROBOTZONE Drive Chain

- Operates in high humidity and corrosive environments
- Chain links can easily be added or removed to adjust total length
- Chain tension load: 2.0 lbs.



| Part No. | Description | 1 | 5 | 25 |
|----------|------------------------|--------|--------|--------|
| 157075 | Drive chain (12" long) | \$7.95 | \$6.95 | \$6.49 |

ROBOT POWER Scorpion Mini - High Performance Dual Channel H-Bridge Speed Controller

- Standard R/C pulse format
- 6.0V to 28V battery voltage
- 6.5A continuous (8A peak) current on each channel
- Fully reversible H-bridge design. Equal power handling in both directions on both channel
- Full current and temperature limiting.

NEW
MARKED IN PINK



| Part No. | Mfr. Part No. | Size (L" x W" x H") | Wt. (lbs.) | 1 | 5 |
|----------|---------------|---------------------|------------|---------|---------|
| 2244332 | Scorpion mini | 2.0 x 1.5 x 0.5 | 0.05 | \$44.95 | \$39.95 |

ROBOT POWER Scorpion XXL - Flexible High Performance Dual Channel Controller

- Standard R/C pulse format
- 6.0V to 28V battery voltage
- Module has no servo leads with enclosure
- 20A continuous current (<45A peak)
- Fully current and over temperature limiting
- RC servo signal and analog voltage via potentiometer
- 2 indicator LEDs for left/right speed and direction
- Left/right channel mixing or separate channel control option

NEW
MARKED IN PINK



| Part No. | Mfr. Part No. | Size (L" x W" x H") | Wt. (lbs.) | 1 | 5 |
|----------|---------------|---------------------|------------|----------|----------|
| 2204074 | Scorpion XXL | 3.27 x 2.27 x 0.5 | 0.11 | \$119.95 | \$109.95 |

JAMECO KitPro DC Motor Speed Control Kit

This kit uses Pulse Width Modulation (PWM) to vary the speed of a DC motor and maintain torque.

- For use with motors up to 100VDC/5A max.
- Intermediate level kit
- Total of 35 pieces
- Requires a 5-16VDC supply (Not included, recommend P/N 114825, pg. 93)

*Web Code: VBA



| Part No. | Cross Ref. No. | Size (L" x W" x H") | 1 | 5 |
|----------|----------------|---------------------|---------|---------|
| 127829 | GMC-1102 | 3.6 x 2.3 x 1.2 | \$39.95 | \$37.95 |

ROBOT POWER MegaMoto Plus H-Bridge Shield for Arduino

- Supply Voltage: 5-28V (24V max battery)
- 20A continuous (25A when used with a fan)
- 40A surge current (5 seconds), over 1100W
- Stack up to three on an Arduino Uno to drive up to six motors in half-bridge mode.
- Control with Arduino PWM pins and even control other DC loads like solenoids or relays.



| Part No. | Mfr. Part No. | Wt. (oz.) | Price |
|----------|---------------|-----------|---------|
| 2204023 | MegaMoto Plus | 1.3 | \$59.95 |

BAU 4-Ch DC Motor Controller with Encoder Support

- Each channel rated for 4A of stall current
- Built-in control logic allows 2-pin motor control (one pin for speed, one pin for direction)
- Designed for the Rover 5 chassis (P/N 2143865, pg 141)
- Low resistance FET H-bridges • Motor supply: 12VDC max.



Includes: Quadrature encoder mixing circuit

| Part No. | Mfr. Part No. | Size | 1 | 5 |
|----------|---------------|-----------------|---------|---------|
| 2150539 | RS011MC | 3.75"L x 2.75"W | \$21.95 | \$19.95 |

*DC Gear Motors — Enter Web Code KBB

ROBOT POWER Vyper - Flexible High Performance Single Channel Speed Controller

- 7.0V to 36V battery voltage
- RC servo signal and analog voltage via potentiometer
- Control modes set by DIP switch
- 120A continuous current (<250A peak)
- Over temperature limiting
- Indicator LED for speed and direction
- Calibration function to match Vyper to radio or analog pot source (EEPROM)
- Failsafe shuts off motor if control signal is lost
- Switching style 5V regulator (BEC function) eliminates battery voltage worries
- RC mode: BEC on/off option; Brake or Coast at zero speed; Lipo battery cut-off on/off

NEW
MARKED IN PINK



| Part No. | Mfr. Part No. | Size (L" x W" x H") | Wt. (lbs.) | 1 | 5 |
|----------|---------------|-----------------------|------------|----------|----------|
| 2204040 | Vyper | 3.125 x 2.875 x 1.375 | 0.40 | \$249.95 | \$224.95 |

ROBOT POWER MegaMoto GT - Robust Dual Half-Bridge Motor Speed Controller

- 6.0V to 35V battery voltage (28V max.)
- PWM frequency: DC to 20kHz
- 35A continuous current
- Fully current and over temperature limiting
- Logic interface: 3V - 5V, minimum 2 pins required
- Logic inputs: Jumper select enable and PWM source
- Power connection: four metal screw terminals
- Built-in current and temperature limiting
- Output current surge: 50A+ for 5 seconds
- Current sense pins: jumper select the analog input connected
- Control DC loads such as lights, solenoids, relays, valves Peltier junction coolers and Hydrogen generators

NEW
MARKED IN PINK



Recommended: Arduino motor shield P/N 2151486

| Part No. | Mfr. Part No. | Size (L" x W" x H") | Wt. (lbs.) | 1 | 5 |
|----------|---------------|---------------------|------------|---------|---------|
| 2244367 | MegaMoto GT | 2.7 x 2.16 x 0.9 | 0.11 | \$69.95 | \$64.95 |



Simple H-Bridge (H-Bridge Circuit)

- Designed for driving DC motors and DC loads
- Activate via 555 timers, MCUs or 3V to 5V logic level signals
- Supply voltage: 5V to 28V (24V max. battery rating)
- 20A continuous (25A with fan), >45A surge current
- Size: 2.5"L x 2.25"W • Weight: 1.32 oz.



| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 2204082 | SIMPLE-H | \$49.95 | \$48.95 |



6-Channel USB Servo Controller

- 5-16V operating voltage
- USB, TTL (5V) serial and internal scripting
- 0.25µs resolution with built-in speed and acceleration control
- Configure channels as outputs for RC servos, ESCs, digital outputs or analog inputs
- 1kB internal script memory • Can be daisy-chained
- Free configuration control app for Windows®



| Part No. | Mfr. P/N | Size (L x W) | 1 | 5 |
|----------|----------|--------------|---------|---------|
| 2128180 | 1350 | 1.2" x 0.85" | \$19.95 | \$18.95 |

*Shields for Arduino — Enter Web Code AOS



Motor Driven Actuator

- Model No.: PDL-50
- Input: 12VDC @ 3.3A
- Power rating: 40W
- Push/pull force: 6 kgs
- Stroke: 3/4" travel • One shot activation
- Dual direction: reverse polarity reverses direction
- Construction: ABS and POM with durable dust proof cover • Limited duty cycle



Includes: Mounting hardware

| Part No. | Size (L x W x H) | 1 | 10 | 100 |
|----------|--------------------|--------|--------|--------|
| 2230221 | 5.7" x 1.0" x 2.3" | \$6.95 | \$6.25 | \$5.59 |



12VDC & 24VDC Continuous Push/Pull Solenoids



262272



262167



142464



2202335



2196748



2201818



149754

| Part No. | *Mfr. | Product No. | Type | Volt. (VDC) | Coil Res. (±10%) (Ω) | Power Consump. (W) | Holding Force (lbs. @20°C) | Stroke (in.) | Dimensions Length x Dia. (in.)† | Shaft Dia. (in.) | Wt. (lbs.) | Pricing | | |
|----------|-------|------------------|----------------------|-------------|----------------------|--------------------|----------------------------|--------------|---------------------------------|------------------|------------|---------|--------|--------|
| | | | | | | | | | | | | 1 | 5 | 25 |
| 2231099 | LEX | B16-258-B-1 | Open frame-pull | 3-9.5 | 6.35 | 1.43-14.3 | 0.90 | 0.15 | 1.0 x 0.4 x 0.5 | 0.15 | 0.03 | \$9.95 | \$8.95 | \$7.95 |
| 262167 | JRP | SMT-1325L12STD2 | Tubular-pull | 12 | 36 | 4.0 | 0.11 | 0.47 | 1.0 x 0.5 | 0.20 | 0.05 | 14.95 | 13.49 | 11.95 |
| 142464 | JRP | SH-T1130L-12VDC1 | Tubular-pull | 12 | 36 | 4.0 | 0.63 | 0.4 | 1.6 x 0.4 | 0.15 | 0.04 | 12.49 | 11.49 | 9.95 |
| 2202335 | JRP | SHE-T0637** | Tubular-pull | 12 | 27 | 12 | 1.3 | 0.5 | 2.0 x 0.75 | 0.25 | 0.17 | 7.95 | 6.95 | 6.25 |
| 2196748 | JRP | SH-T2551L | Tubular-pull | 12 | 14.4 | 10 | 3.86 | 0.4 | 3.1 x 1.0 | 0.41 | 0.39 | 15.95 | 14.49 | 12.95 |
| 2238127 | JRP | WS01632S-12A21 | Tubular-push | 12 | 20.7 | 5.5 | 0.77 | 0.6 | 2.5 x 0.64 | 0.1 | 0.10 | 16.95 | 14.95 | 13.49 |
| 2201818 | JRP | SH-T2551 | Tubular-pull | 24 | 60 | 40 | 4.0 | 1.0 | 3.1 x 0.87 | 0.43 | 0.39 | 16.95 | 14.95 | 13.49 |
| 149754 | JRP | SMT-1325S12A2 | Tubular-push | 12 | 36 | 4.0 | 0.75 | 0.47 | 1.9 x 0.5 | 0.063 | 0.05 | 16.95 | 15.95 | 14.95 |
| 1919203 | LEX | 191172-001 | Stroke-push | 12 | 45 | 7.3 | — | 0.125 | 1.0 x 0.5 | 0.06 | 0.10 | 5.95 | 5.39 | 4.79 |
| 2219330 | ADA | 412 | Open frame-push/pull | 24 | 100 | 5.8 | 1.12 | 0.22 | 2.1 x 0.67 | — | 0.09 | 10.95 | 9.95 | 9.49 |
| 2219348 | ADA | 413 | Open frame-push/pull | 24 | 43 | 13.44 | 3.37 | 0.53 | 2.8 x 1.14 | — | 0.32 | 19.95 | 17.95 | 15.95 |

† Open frame type dimensions: L" x W" x H" *Dual shaft **2-pin Molex connector † P/N 281852 (pg 78), † P/N 2182611 (pg 78) — additional panel mounting hardware available



12VDC Solenoid Valve

- Air leakage: 4psi, 1c.c./min. max.
- Dimensions: 1.2"L x 0.92" Dia.
- 0.250" quick disconnect terminals
- Operating volt.: 12VDC
- Current: 350mA
- Oper. temp.: -29°C to 85°C



| Part No. | Cross Ref. No. | 1 | 5 | 25 |
|----------|----------------|---------|---------|--------|
| 169835 | TAV-0829-R | \$11.95 | \$10.95 | \$9.95 |

*Web Code: MEJ



5VDC 2-Way Solenoid Valve

- 5V @ 100mA, 0.5 watt
- Continuous duty cycle
- 15 psi (max. pressure)
- 0.025 Cv flow factor
- Coil insulation 266°F
- Orifice size 0.030" • 4 PCB pins



| Part No. | Mfr. Part No. | 1 | 5 | 25 |
|----------|---------------|--------|--------|--------|
| 2258401 | RLB204KP30B | \$9.95 | \$8.95 | \$7.95 |

Servo Motors & Accessories

- + pulse width 1500µsec. neutral control system
- Operating voltage range: 4.8V to 6V



2128198



395760



358635



395786



2124971

*Web Code: FVD

Motors

| Part No. | Manufacturer Part No. | Oper. Speed (4.8V@no load) | Stall Torque @ 4.8V (kg.cm) | Direction | Operating Angle | Current Drain (mA, idle/ mA no load) | Dimensions (L" x W" x H") | Pricing | |
|----------|-----------------------|----------------------------|-----------------------------|-----------|--------------------|--------------------------------------|---------------------------|---------|--------|
| | | | | | | | | 1 | 5 |
| 2128198 | 105* | .12sec/60° | 0.6 | Clockwise | — | — | 0.8 x 0.3 x 0.8 | \$6.95 | \$6.25 |
| 2150416 | RS001A | .10sec/60° | 1.5 | Clockwise | — | — | 0.9 x 0.5 x 1.0 | 6.95 | 6.25 |
| 2213350 | SER0006 | .12sec/60° | 1.6 | Clockwise | — | — | 0.9 x 0.5 x 1.2 | 5.95 | 5.49 |
| 2214601 | RS001B | .08sec/60° | 2.0 | Clockwise | — | — | 1.3 x 0.5 x 1.1 | 4.95 | 4.49 |
| 395760 | HS-322HD | .19sec/60° | 3.0 | Clockwise | 40°/one side pulse | 7.4/160 | 1.6 x 0.8 x 1.4 | 13.95 | 12.95 |
| 358635 | HS-311 | .19sec/60° | 3.0 | Clockwise | 40°/one side pulse | 7.4/160 | 1.5 x 0.8 x 1.1 | 11.95 | 10.95 |
| 395786 | HS-422 | .21sec/60° | 3.3 | Clockwise | 45°/one side pulse | 8/150 | 1.6 x 0.8 x 1.4 | 13.95 | 12.95 |
| 2124980 | HS-485HB | .22sec/60° | 4.8 | Clockwise | 45°/one side pulse | 8/150 | 1.6 x 0.8 x 1.5 | 16.95 | 14.95 |
| 2124971 | HS-645MG | .24sec/60° | 7.7 | Clockwise | 45°/one side pulse | 8.8/350 | 1.6 x 0.8 x 1.5 | 29.95 | 28.95 |

* Manufacturer: Pololu Corp.

Accessories

| Part No. | Description | 1 | 5 |
|----------|---|---------|---------|
| 358811 | Servo gripper, 1.3" opening (compatible with all servos above) | \$16.95 | \$14.95 |
| 2239103 | 3 color servo wire (red, black, yellow), 22-20, 50' | 13.95 | 12.49 |
| 2171209 | Analog sensor cable, 3-pin JST female connector | .95 | .75 |
| 2177838 | 12" female-to-female 3-wire servo/sensor cable | 1.95 | 1.75 |
| 2213392 | 11.8" male-to-female straight servo extension cable (blk/red/wht) | 1.49 | 1.25 |
| 2143902 | 24" male-to-female twisted servo extension cable | 3.95 | 3.49 |



358811



2239103



2171209



Continuous & 0-180° Rotation Servos

Controlled easily from a BASIC Stamp or SX chip I/O pin using PBASICs or SX/B's PULSOUT commands.

- 4-6VDC @ ~190mA

*Web Code: FVD

2128201: 2 ball bearings on the output shaft for reduced friction

2110692/283021: Holds position over 180° range; standard servo

283039: Bidirectional continuous rotation and includes an adjustable potentiometer port to center the servo

| Part No. | Mfr. | Mfr. Part No. | Stall Torque @ 6V | Size (L" x W" x H") | Wt. (oz.) | 1 | 5 |
|----------|----------|---------------|-------------------|---------------------|-----------|--------|--------|
| 2201615 | ReliaPro | CYS-S3003 | 38.88 oz.-in | 1.6 x 0.8 x 1.5 | 1.75 | \$9.95 | \$8.95 |
| 2128201 | Pololu | 1248 | 66.7 oz.-in | 1.7 x 0.8 x 1.6 | 1.55 | 12.95 | 12.49 |
| 283021 | Parallax | 900-00005 | 43.1 oz.-in | 2.2 x 0.8 x 1.6 | 1.55 | 17.95 | 15.95 |
| 283039 | Parallax | 900-00008 | 47 oz.-in | 2.2 x 0.8 x 1.6 | 1.50 | 14.95 | 14.49 |
| 2110692 | Parallax | 900-00014 | 19.4 oz.-in | 0.9 x 0.37 x 0.61 | 0.31 | 11.95 | 10.95 |

2128201



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★ 5V Web Code: TAS

★ 12V Web Code: LBZ

NEW
MARKED IN PINK



695050



2134125



2131944

mm to Inches Conversion Chart

| mm | 6 | 6.8 | 10 | 15 | 20 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 45 | 51 | 60 | 70 | 75 | 76 | 80 | 92 | 94 | 95 | 97 | 120 | 125 | 126 | 127 | 150 | 172 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inches | 0.24 | 0.27 | 0.40 | 0.60 | 0.80 | 1.00 | 1.10 | 1.18 | 1.26 | 1.40 | 1.50 | 1.60 | 1.80 | 2.00 | 2.36 | 2.76 | 2.95 | 2.99 | 3.15 | 3.63 | 3.70 | 3.74 | 3.82 | 4.72 | 4.92 | 4.96 | 5.00 | 5.90 | 6.77 |

| Part No. | Manufacturer | Mfr. Part No. | Voltage (VDC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection (Leads) | Pricing | | | |
|----------|--------------|---------------------------|---------------|---------------------|----------------|-------------|--------------|---------------|-------------------|-------------|-------------------------|---------|--------|--------|--------|
| | | | | | | | | | | | | 1 | 10 | 50 | 100 |
| 2134088 | Adda | AD2005LX-K70 | 5 | 20 x 20 x 6 | 0.6 | Hypro | 60 | 0.3 | TUV/CE | 12 | 5.5" | \$10.95 | \$9.95 | \$8.95 | \$7.95 |
| 2131872 | Adda | AD0205MX-K53-LF | 5 | 25 x 25 x 6 | 2.4 | Hypro | 120 | 0.6 | CE | 29 | 6" ¹ | 8.95 | 7.95 | 6.95 | 5.95 |
| 131247 | Adda | AD0205LX-G50-LF | 5 | 25 x 25 x 10 | 1.8 | Hypro | 100 | 0.5 | UL/CSA/CE | 15.6 | 5.5" | 7.95 | 6.95 | 6.25 | 5.95 |
| 2132197 | Adda | AD0205MB-G50GL | 5 | 25 x 25 x 10 | 2.2 | Ball | 120 | 0.6 | UL/CUL/TUV/CE | 23 | 5.5" | 8.95 | 7.95 | 6.95 | 6.25 |
| 695050 | Sunon | GM0502PFV2-8 | 5 | 25 x 25 x 10 | 3.0 | Vapo | 80 | 0.4 | UL/CUL | 16 | 5.5" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2188924 | Adda | AD0305HX-K70(TX) | 5 | 30 x 30 x 6 | 3.5 | Hypro | 180 | 0.9 | UL/CUL/TUV/CE | 32 | 5.5" | 6.95 | 5.95 | 5.49 | 4.95 |
| 2208905 | Sunon | KDE0503PEB1-8 | 5 | 30 x 30 x 6 | 4.9 | Ball | 180 | 0.9 | UL/CUL/TUV/CE | 28 | 5.5" | 4.95 | 4.49 | 3.95 | 3.49 |
| 2203354 | Adda | AB3505LB-QB0 [†] | 5 | 35 x 35 x 7 | 0.09 | Ball | 100 | 0.5 | UL/CUL/TUV/CE | 19 | 12" | 6.95 | 5.95 | 4.95 | 3.95 |
| 2134096 | Adda | AD3505MX-G53 | 5 | 35 x 35 x 10 | 6.0 | Hypro | 130 | 0.65 | UL/CUL/TUV/CE | 30 | 12" ¹ | 4.95 | 4.49 | 3.95 | 3.49 |
| 1708457 | Sunon | KDE0504PEB3-8 (MS) | 5 | 40 x 40 x 6.8 | 3.5 | Ball | 90 | 0.45 | UL/CUL/TUV | 20 | 6" | 4.95 | 4.49 | 3.95 | 3.59 |
| 2167242 | Adda | AD0405LB-K90(S)-LF | 5 | 40 x 40 x 6.8 | 4.5 | Ball/Sleeve | 50 | 0.25 | UL/CUL/TUV/CE | 19.9 | 5.4" | 7.95 | 6.95 | 6.25 | 5.95 |
| 2220200 | Adda | AD0405MB-K90 | 5 | 40 x 40 x 6.8 | 5.2 | Ball | 90 | 0.45 | UL/CUL/TUV/CE | 23.8 | 5.5" | 7.95 | 6.95 | 6.25 | 5.59 |
| 2133886 | Adda | AD0405LX-G70 | 5 | 40 x 40 x 10 | 4.7 | Hypro | 80 | 0.40 | UL/CUL/TUV/CE | 21 | 11" | 5.95 | 5.39 | 4.79 | 4.39 |
| 2258814 | Adda | AD0405MB-G76 | 5 | 40 x 40 x 10 | 5.0 | Ball | 110 | 0.55 | UL/CUL/TUV/CE | 22 | 4" w/ conn ¹ | 4.95 | 4.49 | 3.95 | 3.49 |
| 2138628 | Adda | AD0405MB-G70-LF | 5 | 40 x 40 x 10 | 5.7 | Ball | 110 | 0.55 | UL/CUL/TUV/CE | 22 | 12" | 7.95 | 6.95 | 5.95 | 5.49 |
| 2220091 | Adda | AD0405MK-G70 | 5 | 40 x 40 x 10 | 5.7 | Hypro | 110 | 0.55 | UL/CUL/TUV/CE | 15.9 | 4" | 5.95 | 5.39 | 4.79 | 4.29 |
| 2131928 | Adda | AD0405MX-G76-LF | 5 | 40 x 40 x 10 | 5.7 | Hypro | 110 | 0.55 | UL/CUL/TUV/CE | 15.9 | 11" ¹ | 4.95 | 4.49 | 3.95 | 3.49 |
| 1928353 | Adda | AD0405HX-G70 | 5 | 40 x 40 x 10 | 6.7 | Hypro | 190 | 0.95 | UL/CUL/TUV/CE | 30 | 11" | 5.95 | 5.39 | 4.79 | 4.29 |
| 2229933 | Sunon | EE40100S1-0000-999 | 5 | 40 x 40 x 10 | 8.0 | Sleeve | 271 | 1.36 | UL/CUL/TUV | 32 | 12" | 7.95 | 6.95 | 6.25 | 5.95 |
| 2132189 | Adda | AD0405HB-G70 | 5 | 40 x 40 x 10 | 8.7 | Ball | 100 | 0.8 | UL/CUL/TUV/CE | 25 | 12" w/ conn | 4.95 | 4.49 | 3.95 | 3.49 |
| 2230993 | Delta | FBK04F05L | 5 | 40 x 40 x 20 | 3.9 | Ball | 120 | 0.6 | UL/UR | 24 | 10" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2131910 | Adda | AD0405MX-C50-LF | 5 | 40 x 40 x 20 | 8.1 | Hypro | 160 | 0.8 | UL/CUL/TUV/CE | 27 | 13" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2134133 | Adda | AP.505HB-J90 | 5 | 45 x 45 x 8 | 6.0 | Hypro | 120 | 0.6 | UL/CUL/TUV/CE | 31 | 5" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2134125 | Adda | AP0505HB-J90 [§] | 5 | 50 x 50 x 8 | 6.0 | Ball | 140 | 0.60 | UL/CUL/CE | 30 | 5" | 3.95 | 3.49 | 2.95 | 2.49 |
| 136494 | Delta | AFB0505LA | 5 | 50 x 50 x 10 | 7.4 | Ball | 120 | 0.4 | UL/CE/CSA/VDE | 26 | 11" | 5.95 | 4.95 | 3.95 | 3.49 |
| 2150774 | Adda | AD0505MB-G70-LF | 5 | 50 x 50 x 10 | 10.5 | Ball | 180 | 0.9 | UL/CUL/TUV/CE | 24 | 12" | 9.95 | 8.95 | 8.49 | 7.95 |
| 2121324 | Adda | AD0505MB-G76LF | 5 | 50 x 50 x 10 | 10.5 | Ball | 180 | 0.9 | UL/CUL/TUV/CE | 24 | 11" ¹ | 7.95 | 6.95 | 5.95 | 4.95 |
| 2186241 | Sunon | KDE0505PFV1.11.MSA.GN | 5 | 50 x 50 x 10 | 13 | Vapo | 270 | 1.4 | UL/CUL/VDE | 30 | 16" w/ conn | 8.95 | 7.95 | 6.95 | 5.95 |
| 2132120 | Adda | AD0605LB-A72GL | 5 | 60 x 60 x 25 | 13.8 | Ball | 150 | 0.75 | UL/CUL/TUV/CE | 20.3 | 12" ¹ | 5.95 | 5.39 | 4.79 | 4.29 |
| 2131944 | Adda | AD0605HB-A71-LF | 5 | 60 x 60 x 25 | 23.2 | Ball | 450 | 2.25 | UL/CUL/TUV/CE | 32 | 11" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2131952 | Adda | AD0605HB-A72GL | 5 | 60 x 60 x 25 | 24.3 | Ball | 450 | 2.25 | UL/CUL/TUV/CE | 36 | 12" ⁵ | 6.95 | 6.25 | 5.59 | 4.95 |
| 2258671 | Adda | AD0805HB-D71 | 5 | 80 x 80 x 15 | 29.9 | Ball | 430 | 2.1 | UL/CUL/TUV/CE | 33 | 12" | 10.95 | 9.95 | 8.95 | 7.95 |
| 2095269 | Adda | AD2012LX-G70(X) | 12 | 20 x 20 x 10 | 0.6 | Hypro | 60 | 0.84 | UL/CUL/CE | 20 | 5.5" | 7.95 | 6.95 | 5.95 | 4.95 |
| 2227655 | Adda | AD0212MX-K50 | 12 | 25 x 25 x 6 | 2.4 | Hypro | 60 | 0.72 | UL/CUL/TUV/CE | 29 | 5.5" | 11.95 | 10.95 | 9.95 | 8.95 |
| 2179454 | Jamicon | KF0210S1H | 12 | 25 x 25 x 10 | 2.57 | Sleeve | 120 | 1.44 | UL/TUV/CE | 27.4 | 12" | 3.95 | 3.49 | 2.95 | 2.49 |
| 2121316 | Adda | AD0212HB-G50GL | 12 | 25 x 25 x 10 | 2.8 | Ball | 90 | 1.08 | UL/CUL/CE | 29 | 5.5" | 5.95 | 5.39 | 4.79 | 4.29 |
| 2133958 | Adda | AD0312DB-G50 | 12 | 30 x 30 x 10 | 2.18 | Ball | 50 | 0.6 | UL/CUL/CE | 17 | 12" | 5.95 | 5.39 | 4.79 | 4.29 |
| 212741 | Sunon | KDE1235PFB2-8 | 12 | 35 x 35 x 10 | 4.5 | Ball | 60 | 0.8 | UL/CUL/TUV/CE/VDE | 21 | 3" w/ conn | 6.95 | 6.25 | 5.59 | 4.95 |
| 2179411 | Sunon | MF35101V1-10000-A99 | 12 | 35 x 35 x 10 | 7.2 | Vapo | 60 | 0.72 | UL/CUR/TUV/CE | 28 | 5.5" | 11.95 | 10.95 | 9.95 | 8.95 |
| 2186224 | Delta | FFB03812VHN-F00 | 12 | 38 x 38 x 28 | 20.2 | Ball | 650 | 7.8 | UL/CE/CSA/VDE/CE | 58.5 | 13" ¹ | 5.95 | 4.95 | 4.49 | 3.95 |
| 2215435 | Adda | AD0412HX-K96 (X) | 12 | 40 x 40 x 6 | 5.4 | Hypro | 140 | 0.96 | UL/CUL/TUV/CE | 30.5 | 5.5" ¹ | 8.95 | 7.95 | 6.95 | 6.25 |
| 2132162 | Adda | AD0412LS-G70(T) | 12 | 40 x 40 x 10 | 4.7 | Sleeve | 70 | 0.84 | UL/CUL/TUV/CE | 14 | 12" | 4.95 | 4.49 | 3.95 | 3.49 |
| 2095314 | Adda | AD0412LX-G70 | 12 | 40 x 40 x 10 | 4.7 | Hypro | 70 | 0.84 | UL/CUL/TUV | 14 | 11" | 5.95 | 5.39 | 4.79 | 4.39 |
| 2224180 | Adda | AD0412LX-G76 | 12 | 40 x 40 x 10 | 4.7 | Hypro | 70 | 0.84 | UL/CUL/TUV | 14 | 12" ¹ | 5.95 | 5.49 | 4.95 | 4.49 |
| 2167630 | Sunon | HA40101V4-0000-999 | 12 | 40 x 40 x 10 | 5.3 | Vapo | 65 | 0.8 | UL/TUV/CE | 18.2 | 12" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2133915 | Adda | AD0412MX-G70 | 12 | 40 x 40 x 10 | 5.7 | Hypro | 80 | 0.96 | UL/CUL/TUV/CE | 20 | 11.5" | 4.95 | 4.49 | 3.95 | 3.49 |
| 2197530 | JMC | 4010-12-HBHA | 12 | 40 x 40 x 10 | 6.4 | Dual Ball | 80 | 0.96 | UL/CUL/TUV | 25 | 8" w/ conn ¹ | 7.95 | 6.95 | 6.25 | 5.59 |
| 2205384 | Adda | AD0412HB-G70(T) | 12 | 40 x 40 x 10 | 6.7 | Ball | 100 | 1.2 | UL/CUL/TUV/CE | 25 | 12" | 6.49 | 5.49 | 4.95 | 4.49 |
| 2167234 | Sunon | ME40101V1-0000-A99 | 12 | 40 x 40 x 10 | 8.0 | Vapo | 90 | 1.08 | UL/CUL/TUV | 32 | 12" | 4.95 | 4.49 | 3.95 | 3.49 |
| 1708473 | Sunon | KDE1204PFVX11.MS.A | 12 | 40 x 40 x 10 | 9.5 | Vapo | 150 | 1.8 | UL/CUL/TUV | 39 | 12" | 5.95 | 4.95 | 4.49 | 3.95 |
| 2228181 | Delta | AFB0412LD | 12 | 40 x 40 x 20 | 3.88 | Ball | 50 | 0.6 | UL/CE/CSA/TUV | 25 | 13" | 3.95 | 3.59 | 3.29 | 2.95 |
| 2133835 | Adda | AD0412DX-C50 | 12 | 40 x 40 x 20 | 4.9 | Hypro | 50 | 0.6 | UL/CUL/TUV/CE | 10 | 11" | 4.95 | 4.49 | 3.95 | 3.59 |

¹ 3 leads; speed sensor ⁵ 3 leads; alarm (All fans operate to their specs with or without the additional optional wire functions) [§] DC chip cooler [†] Blower

For case mounting screws, P/Ns 2188481 or 2188490, page 78

DC Brushless Tubeaxial Fans



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2210909



2099446

mm to Inches Conversion Chart

| mm | 6 | 6.8 | 10 | 15 | 20 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 45 | 51 | 60 | 70 | 75 | 76 | 80 | 92 | 94 | 95 | 97 | 120 | 125 | 126 | 127 | 150 | 172 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inches | 0.24 | 0.27 | 0.40 | 0.60 | 0.80 | 1.00 | 1.10 | 1.18 | 1.26 | 1.40 | 1.50 | 1.60 | 1.80 | 2.00 | 2.36 | 2.76 | 2.95 | 2.99 | 3.15 | 3.63 | 3.70 | 3.74 | 3.82 | 4.72 | 4.92 | 4.96 | 5.00 | 5.90 | 6.77 |

| Part No. | Manufacturer | Mfr. Part No. | Voltage (VDC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection (Leads) | Pricing | | | |
|----------|---------------|--------------------|---------------|---------------------|----------------|-----------|--------------|---------------|------------------|-------------|---------------------------|---------|--------|--------|--------|
| | | | | | | | | | | | | 1 | 10 | 50 | 100 |
| 195899 | Sunon | KDE1204PKS2 | 12 | 40 x 40 x 20 | 6.5 | Sleeve | 70 | 0.9 | UL/CSA/TUV | 25.5 | 12" | \$4.95 | \$4.49 | \$3.95 | \$3.59 |
| 2134176 | Adda | AD0412LB-C50 | 12 | 40 x 40 x 20 | 7.0 | Ball | 70 | 0.84 | UL/CUL/TUV/CE | 25 | 11" | 5.95 | 5.39 | 4.79 | 4.29 |
| 207052 | Adda | AD0412LB-C53 | 12 | 40 x 40 x 20 | 7.0 | Ball | 110 | 1.32 | UL/CUL/TUV/CE | 30 | 11" (1) | 5.95 | 5.39 | 4.79 | 4.29 |
| 2151021 | Sanyo Denki | 109P0412H601 | 12 | 40 x 40 x 20 | 8.0 | Ball | 110 | 1.3 | UL/CSA | 33 | 7" w/ conn ¹ | 4.95 | 4.49 | 3.95 | 3.59 |
| 2133907 | Adda | AD0412MB-C50 | 12 | 40 x 40 x 20 | 8.5 | Ball | 80 | 0.96 | UL/CUL/TUV/CE | 28.5 | 11" | 4.95 | 4.49 | 3.95 | 3.49 |
| 2220218 | Adda | AD0412HB-C50(G) | 12 | 40 x 40 x 20 | 8.8 | Ball | 100 | 1.2 | UL/CUL/TUV/CE | 36 | 10" w/conn | 6.95 | 6.25 | 5.59 | 4.95 |
| 249375 | Adda | AD0412HB-C71GD | 12 | 40 x 40 x 20 | 8.97 | Ball | 160 | 1.1 | UL/CUL/TUV/CE | 39.3 | 12" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2230969 | Delta | EFB0412HHD | 12 | 40 x 40 x 20 | 9.5 | Ball | 100 | 1.2 | UL/CUL/CSA/TUV | 30.5 | 12" | 5.95 | 4.95 | 4.49 | 3.95 |
| 1928118 | Adda | AD0412HB-C50 | 12 | 40 x 40 x 20 | 10.5 | Ball | 110 | 1.2 | UL/CUL/TUV/CE | 31.9 | 12" | 8.95 | 7.95 | 6.95 | 6.25 |
| 2135380 | Adda | AD0412UB-C72GP(P) | 12 | 40 x 40 x 20 | 10.6 | Ball | 200 | 2.4 | UL/CUL/TUV/CE | 34 | 12" ² | 9.95 | 8.95 | 7.95 | 6.95 |
| 2227330 | Elina | HDF4020L-12HHB-4 | 12 | 40 x 40 x 20 | 10.9 | Ball | 165 | 1.98 | UL/CUL/TUV | 34 | 18" w/ conn | 7.95 | 6.95 | 5.95 | 4.95 |
| 2186232 | Delta | FFB0412HN-ST20 | 12 | 40 x 40 x 28 | 10.6 | Ball | 110 | 0.84 | UL/CSA/TUV | 36 | 3.5" w/ conn ¹ | 3.95 | 3.49 | 2.95 | 2.49 |
| 2082089 | Sanyo Denki | 109P0412H302 | 12 | 40 x 40 x 28 | 11.3 | Ball | 195 | 2.3 | UL/CSA/TUV | 37 | 3.75" | 5.95 | 4.95 | 4.49 | 3.95 |
| 2228800 | Delta | GFBO412EMS-D | 12 | 40 x 40 x 56 | 31.2 | Ball | 135 | 16.2 | UL/CUL/VDE | 64 | 3" w/ conn | 11.95 | 10.95 | 9.95 | 8.95 |
| 2095322 | Adda | AD4512MX-G76 | 12 | 45 x 45 x 10 | 6.7 | Hypro | 70 | 0.84 | UL/CUL/TUV/CE | 22 | 11" ¹ | 9.95 | 8.95 | 7.95 | 6.95 |
| 2095349 | Adda | AD0512MB-G76 | 12 | 50 x 50 x 10 | 10.5 | Ball | 120 | 1.4 | UL/CUL/TUV/CE | 24 | 11" ¹ | 9.95 | 8.95 | 7.95 | 6.95 |
| 2202992 | Sunon | ME50101V1-000U-A99 | 12 | 50 x 50 x 10 | 13.8 | Vapo | 110 | 1.3 | UL/CUL/TUV | 31 | 12" | 7.95 | 6.95 | 6.25 | 5.95 |
| 2099534 | Adda | AD0512HB-D70 | 12 | 50 x 50 x 15 | 14.2 | Ball | 100 | 1.3 | UL/CUL/TUV/CE | 29 | 5.5" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2258451 | Sunon | KDE1205PHV1 | 12 | 50 x 50 x 15 | 17 | Vapo | 87 | 1.0 | UL/CUL/TUV/CE | 33 | 12" ¹ | 6.95 | 6.25 | 5.59 | 4.95 |
| 2203004 | Sunon | MB50151V1-000U-A99 | 12 | 50 x 50 x 15 | 17 | Vapo | 87 | 1.05 | UL/CE/TUV/CUL | 33 | 12" | 8.95 | 7.95 | 6.95 | 6.25 |
| 2228261 | NMB | 2106KL-04W-B39 | 12 | 52 x 52 x 15 | 9.9 | Ball | 70 | 0.84 | UL/CSA/CE/TUV | 21 | 12" (1) | 6.95 | 6.25 | 5.59 | 4.95 |
| 139601 | Adda | AD0512HS-D71 | 12 | 52 x 52 x 15 | 12 | Sleeve | 100 | 1.2 | UL/CSA/CE | 29 | 5" | 3.95 | 3.49 | 2.95 | 2.49 |
| 139602 | Adda | AD0512HS-D71-LF | 12 | 52 x 52 x 15 | 12 | Sleeve | 100 | 1.2 | UL/CSA/CE | 29 | 6" | 8.95 | 7.95 | 6.95 | 6.25 |
| 2133991 | Adda | AD0612LX-G70 | 12 | 60 x 60 x 10 | 10 | Hypro | 120 | 1.44 | UL/CUL/TUV/CE | 26 | 11" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2121332 | Adda | AD0612LX-G76(T) | 12 | 60 x 60 x 10 | 10 | Hypro | 110 | 1.32 | UL/CUL/TUV/CE | 26 | 11" ¹ | 6.95 | 6.25 | 5.59 | 4.95 |
| 2205499 | Adda | AD0612HB-G90 | 12 | 60 x 60 x 10 | 14.06 | Ball | 140 | 1.6 | UL/TUV/CE | 32.8 | 4.5" w/ conn | 4.95 | 4.49 | 3.95 | 3.49 |
| 2095357 | Adda | AD0612HB-G70 | 12 | 60 x 60 x 10 | 14.5 | Ball | 150 | 1.8 | UL/CUL/TUV/CE | 32 | 11" | 7.95 | 6.95 | 6.25 | 5.95 |
| 1946025 | Evercool | EC6010M12CA | 12 | 60 x 60 x 10 | 15.5 | Ball | 160 | 1.9 | UL/CE/TUV | 30 | 9" ¹ | 8.95 | 7.95 | 6.95 | 6.25 |
| 2217959 | Thermactive | RDM6010B1 | 12 | 60 x 60 x 10 | 15.9 | Ball | 170 | 2.04 | UL/CUL/TUV/CE | 31 | 12" | 6.95 | 5.95 | 5.49 | 4.49 |
| 2210909 | Delta | AFB0612LB-TXNS | 12 | 60 x 60 x 15 | 11.55 | Ball | 100 | 0.84 | UL/CSA/CE | 24 | 6" w/ conn ² | 5.95 | 4.95 | 4.49 | 3.95 |
| 1928046 | Adda | AD0612MS-D70GL | 12 | 60 x 60 x 15 | 14 | Sleeve | 110 | 1.32 | UL/CUL/TUV/CE | 29 | 5" | 5.95 | 5.39 | 4.79 | 4.29 |
| 2167568 | Sunon | ME60151V1-0000-A99 | 12 | 60 x 60 x 15 | 25.2 | Vapo | 160 | 1.92 | UL/TUV/CE | 36.2 | 12" | 6.95 | 5.95 | 5.49 | 4.95 |
| 144161 | Adda | AD0612LB-C70GL | 12 | 60 x 60 x 20 | 12.6 | Ball | 80 | 1.0 | UL/CSA/TUV | 22.7 | 12" | 5.95 | 4.95 | 4.49 | 3.95 |
| 2134011 | Adda | AD0612MX-C70GL | 12 | 60 x 60 x 20 | 14.5 | Hypro | 130 | 1.56 | UL/CUL/TUV/CE | 25.7 | 12" | 4.95 | 4.49 | 3.95 | 3.49 |
| 2227276 | YS Tech | NYW060250125BL | 12 | 60 x 60 x 25 | 15.8 | Ball | 80 | 0.96 | UL/CUL/TUV | 23.5 | 7" w/ conn | 4.95 | 4.49 | 3.95 | 3.59 |
| 2155292 | Comair Rotron | GDA6025-12BB | 12 | 60 x 60 x 25 | 18 | Ball | 140 | 1.7 | UL/CUL/TUV | 26.1 | 12" | 3.95 | 3.59 | 2.95 | 2.59 |
| 2162847 | NMB | 2410ML-04W-B30 | 12 | 60 x 60 x 25 | 19 | Ball | 117 | 1.4 | UL/CSA/VDE/CE | 29 | 12" | 8.95 | 7.95 | 6.95 | 6.25 |
| 2205149 | Sunon | MB60251V2-000U-G99 | 12 | 60 x 60 x 25 | 19.3 | Vapo | 74 | 0.8 | UL/CUL/CE/TUV | 29 | 12" ¹ | 9.95 | 8.95 | 7.95 | 6.95 |
| 2217941 | Thermactive | RDH6025B-FG | 12 | 60 x 60 x 25 | 20.3 | Ball | 140 | 1.68 | UL/CUL/TUV/CE | 29 | 12" ¹ | 6.95 | 6.25 | 5.95 | 5.49 |
| 2230766 | Thermactive | RDH6025B | 12 | 60 x 60 x 25 | 20.3 | Ball | 140 | 1.68 | UL/CUL/TUV/CE | 29 | 12" ⁴ | 7.95 | 6.95 | 5.95 | 5.49 |
| 2228818 | Mitsubishi | MMF-06D12DL | 12 | 60 x 60 x 25 | 21.6 | Ball | 70 | 0.84 | UL/CSA | 23 | 8" w/ conn | 6.95 | 6.25 | 5.59 | 4.95 |
| 2150766 | Adda | AD0612HB-A72GL | 12 | 60 x 60 x 25 | 23.2 | Ball | 230 | 2.7 | UL/CUL/TUV/CE | 32.3 | 12" ² | 7.95 | 6.95 | 5.95 | 4.95 |
| 2227719 | Adda | AD0612HB-A70GL | 12 | 60 x 60 x 25 | 23.2 | Ball | 230 | 2.76 | UL/CUL/TUV/CE | 32.3 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2158311 | Delta | AFB0612EH-BF00 | 12 | 60 x 60 x 25 | 38.35 | Ball | 480 | 5.76 | UL/CSA/CE | 46.5 | 8" w/ conn ¹ | 11.95 | 10.95 | 9.95 | 8.95 |
| 2125561 | AVC | DE07015R12U | 12 | 70 x 70 x 15 | 43 | Hydraulic | 700 | 8.4 | UL/CE/TUV | 46 | 8" w/ conn | 5.95 | 4.95 | 3.95 | 2.95 |
| 2227647 | JMC | 7025-12LS | 12 | 70 x 70 x 25 | 22 | Sleeve | 100 | 1.2 | UL/CUL/TUV | 24.3 | 6" w/ conn. | 6.95 | 6.25 | 5.59 | 4.95 |
| 2099446 | Adda | AD7512LB (2A)† | 12 | 76 x 76 x 30 | 6.9 | Ball | 110 | 1.32 | UL/CUL/TUV/CE | 29 | 15" w/ conn ² | 6.95 | 6.25 | 5.59 | 4.95 |
| 2192561 | Adda | AD0812LB-D70(T) | 12 | 80 x 80 x 15 | 20 | Ball | 90 | 1.08 | UL/CSA/TUV/CE | 19.6 | 12" | 7.95 | 6.95 | 5.95 | 5.49 |
| 2132007 | Adda | AD0812HS-D70-LF | 12 | 80 x 80 x 15 | 38.6 | Sleeve | 250 | 3.0 | UL/CSA/TUV/CE | 33 | 12" | 5.95 | 5.49 | 4.95 | 4.49 |
| 2095365 | Adda | AD0812XX-D71 | 12 | 80 x 80 x 15 | 39.4 | Hypro | 350 | 4.2 | UL/CSA/TUV/CE | 42 | 11" | 8.95 | 7.95 | 6.95 | 5.95 |

¹ 3 leads; speed sensor ² 3 leads; locked rotor protection ⁴ 4 leads with speed sensor, PWM control (All fans operate to their specs with or without the additional optional wire functions) † Blower
For case mounting screws, P/Ns 2188481 or 2188490, page 78

Continued on next page

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2211012



2228172



2203346

mm to Inches Conversion Chart

| mm | 6 | 6.8 | 10 | 15 | 20 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 45 | 51 | 60 | 70 | 75 | 76 | 80 | 92 | 94 | 95 | 97 | 120 | 125 | 126 | 127 | 150 | 172 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inches | 0.24 | 0.27 | 0.40 | 0.60 | 0.80 | 1.00 | 1.10 | 1.18 | 1.26 | 1.40 | 1.50 | 1.60 | 1.80 | 2.00 | 2.36 | 2.76 | 2.95 | 2.99 | 3.15 | 3.63 | 3.70 | 3.74 | 3.82 | 4.72 | 4.92 | 4.96 | 5.00 | 5.90 | 6.77 |

| Part No. | Manufacturer | Mfr. Part No. | Voltage (VDC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection (Leads) | Pricing | | | |
|----------|---------------|--------------------|---------------|---------------------|----------------|-----------|--------------|---------------|------------------|-------------|--------------------------|---------|--------|--------|--------|
| | | | | | | | | | | | | 1 | 10 | 50 | 100 |
| 2230985 | Delta | EFC0812DF | 12 | 80 x 80 x 15 | 49 | Ball | 330 | 3.9 | UL/CSA/TUV/CE | 45 | 12" ³ | \$9.95 | \$8.95 | \$7.95 | \$6.95 |
| 141921 | Adda | AD0812HB-C70 | 12 | 80 x 80 x 20 | 27.3 | Ball | 240 | 2.9 | UL/CSA/CE | 34 | 12" | 10.95 | 9.95 | 8.95 | 7.95 |
| 2228121 | NMB | 3110GL-B4W-B14 | 12 | 80 x 80 x 25 | 24.7 | Ball | 100 | 1.2 | UL/CSA/VDE/CE | 22 | 10" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2228148 | Mechatronics | F8025S12B | 12 | 80 x 80 x 25 | 26 | Ball | 75 | 1.2 | UL/CSA/TUV | 22 | 10" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2228113 | Nidec | D08A-12TL | 12 | 80 x 80 x 25 | 27.7 | Ball | 120 | 0.7 | UL | 19 | 8" w/ conn | 6.95 | 6.25 | 5.59 | 4.95 |
| 688597 | NMB | 3110GL-B4W-B19-PA1 | 12 | 80 x 80 x 25 | 30 | Ball | 120 | 1.2 | UL/CSA/TUV/CE | 22 | 12" w/ conn ¹ | 5.95 | 5.35 | 4.79 | 4.29 |
| 2205181 | Delta | AFB0812M-F00 | 12 | 80 x 80 x 25 | 30.8 | Ball | 180 | 1.8 | UL/CSA/CE | 29.5 | 12" ¹ | 5.95 | 5.35 | 4.79 | 4.29 |
| 123530 | Adda | AD0812MS-A70GL | 12 | 80 x 80 x 25 | 32 | Sleeve | 150 | 1.8 | UL/CSA/TUV | 28.3 | 12" | 6.95 | 5.95 | 4.95 | 4.59 |
| 1955010 | NMB | 3110KL-04W-B40 | 12 | 80 x 80 x 25 | 35.3 | Ball | 200 | 2.40 | UL/CSA/TUV/CE | 31 | 13" | 6.95 | 6.25 | 5.59 | 4.95 |
| 2135697 | Panaflo | FBM-08A12H | 12 | 80 x 80 x 25 | 39.6 | Sleeve | 220 | 2.1 | UL/CSA | 32 | 12" w/ conn | 3.95 | 3.49 | 2.95 | 2.49 |
| 2210984 | Sunon | EE80251B1-0000-A99 | 12 | 80 x 80 x 25 | 41 | Ball | 145 | 1.7 | UL/CUL/TUV/CE | 33 | 12" | 7.95 | 7.49 | 6.95 | 6.25 |
| 2081078 | Jamicon | JF0825B1UR | 12 | 80 x 80 x 25 | 52 | Dual Ball | 370 | 4.4 | UL/CUL/TUV/CE | 40 | 12" | 9.95 | 8.95 | 7.95 | 7.49 |
| 2210933 | Sunon | PF80251V1-0000-A99 | 12 | 80 x 80 x 25 | 60 | Vapo | 341 | 4.1 | UL/CUL/TUV | 46.5 | 12" | 12.95 | 11.95 | 10.95 | 9.95 |
| 2209001 | Sanyo Denki | 9GV0812P4K03 | 12 | 80 x 80 x 25 | 74.8 | Ball | 870 | 10.4 | UL/CUL/TUV | 52 | 12" ⁴ | 7.95 | 6.95 | 6.25 | 5.95 |
| 2228164 | EBM Papst | 8312 | 12 | 80 x 80 x 32 | 31.8 | Ball | 220 | 2.2 | UL/CSA/TUV | 36 | 12" | 12.95 | 11.49 | 9.95 | 8.95 |
| 107406 | EBM Papst | 8312GHL | 12 | 80 x 80 x 32 | 39.4 | Sleeve | 330 | 4.0 | UL/CE/CSA/VDE | 43 | 12" | 6.95 | 5.95 | 4.95 | 4.49 |
| 2230758 | Thermactive | RGM8038B1 | 12 | 80 x 80 x 38 | 83.4 | Ball | 850 | 11.7 | UL/CUL/TUV/CE | 57 | 12" ⁴ | 10.95 | 9.95 | 8.95 | 7.95 |
| 1928100 | Adda | AD0812XB-F71DS | 12 | 80 x 80 x 38 | 99 | Ball | 1500 | 18.0 | UL/CSA/TUV/CE | 57 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 1952783 | Nidec | TA350DC-M34138-34 | 12 | 92 x 92 x 25 | 35 | Ball | 160 | 1.92 | UL/CSA | 26.4 | 10" w/ conn ³ | 3.95 | 3.49 | 2.95 | 2.49 |
| 1952257 | AVC | C9025S12L | 12 | 92 x 92 x 25 | 37.2 | Sleeve | 150 | 1.8 | UL/CUL/TUV/CE | 26.2 | 5.5" ¹ | 2.95 | 2.59 | 2.29 | 1.95 |
| 154641 | Nidec | TA350DC-M33422-16 | 12 | 92 x 92 x 25 | 48 | Ball | 290 | 3.5 | UL/CSA | 35 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2228236 | Sunon | 1209PTB1-6 | 12 | 92 x 92 x 25 | 49 | Ball | 170 | 2.8 | UL/CUL/CE/TUV | 35 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2193942 | Orion | DPF92B012 | 12 | 92 x 92 x 25 | 50 | Ball | 290 | 3.48 | UL/CUL | 33 | 12" | 7.95 | 6.95 | 6.25 | 5.59 |
| 2228201 | Mechatronics | E9225H12B2 | 12 | 92 x 92 x 25 | 51 | Ball | 360 | 4.3 | UL/CUL/TUV | 36 | 14" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2172711 | Mechatronics | MC9238X12B-FS | 12 | 92 x 92 x 38 | 80.5 | Ball | 720 | 8.6 | UL/CUL/TUV | 47.5 | 12" | 6.95 | 5.95 | 5.49 | 4.95 |
| 174140 | Common Wealth | FP108MS3 | 12 | 120 x 120 x 25 | 62 | Sleeve | 140 | 1.7 | UL/CSA/TUV/CE | 25 | 12" | 8.95 | 7.95 | 7.25 | 6.49 |
| 2228156 | NMB | 4710KL-04W-B19 | 12 | 120 x 120 x 25 | 63.5 | Ball | 120 | 1.44 | UL/CE/CSA/TUV | 27 | 8" ² | 9.95 | 8.95 | 7.95 | 6.95 |
| 2228172 | AVC | F1225B12L | 12 | 120 x 120 x 25 | 75.2 | Ball | 270 | 3.24 | UL/CSA/CUL | 39.5 | 8" w/conn ² | 9.95 | 8.95 | 7.95 | 6.95 |
| 2228130 | Delta | WFB1212H-BF05 | 12 | 120 x 120 x 25 | 86.5 | Ball | 360 | 4.32 | UL/CSA/TUV/CE | 37.6 | 13" ¹ | 9.95 | 8.95 | 7.95 | 6.95 |
| 2227866 | YSTech | FD121225MB | 12 | 120 x 120 x 25 | 87.8 | Ball | 290 | 3.48 | UL/CUL/TUV | 40.5 | 12" | 12.95 | 11.95 | 10.95 | 9.95 |
| 2170927 | Adda | AD1212US-A71GL-LF | 12 | 120 x 120 x 25 | 98.6 | Sleeve | 500 | 6.0 | UL/CUL/TUV/CE | 43.3 | 11" | 8.95 | 7.95 | 7.25 | 6.49 |
| 2203346 | Adda | AB1212MS-Y01† | 12 | 120 x 120 x 32 | 28 | Sleeve | 560 | 100 | UL/CUL/CE/TUV | 49 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 1928020 | Adda | AD1212MB-Y51 | 12 | 120 x 120 x 32 | 99 | Ball | 260 | 3.1 | UL/CUL/TUV/CE | 41 | 11" | 10.95 | 9.95 | 8.95 | 7.95 |
| 2211012 | EBM Papst | 4112GX | 12 | 120 x 120 x 38 | 94 | Sleeve | 290 | 3.5 | UL/CSA/CE | 44 | Terminals | 9.95 | 8.95 | 7.95 | 6.95 |
| 2173079 | Sunon | EEC0381B2-0000-A99 | 12 | 120 x 120 x 38 | 116 | Ball | 425 | 5.1 | UL/CUL/TUV/CE | 44 | 12" | 14.95 | 13.95 | 12.95 | 11.95 |
| 2138679 | Mechatronics | F1238E12B2 | 12 | 120 x 120 x 38 | 126 | Ball | 700 | 8.5 | UL/CUL/TUV | 43 | 12" ² | 11.95 | 10.95 | 9.95 | 8.95 |
| 2228252 | Orion | OD1238-12HHB | 12 | 120 x 120 x 38 | 154 | Sleeve | 1300 | 15.6 | UL/CUL/CE/TUV | 52 | 12" w/conn | 14.95 | 13.49 | 11.95 | 10.95 |
| 2203426 | Adda | AD1312UB-F51(CU) | 12 | 127 x 127 x 38 | 193 | Ball | 1220 | 14.6 | UL/CUL/CE | 56 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2228295 | Sanyo | 109E1712K502 | 12 | 172 x 51 | 300 | Ball | 2900 | 34.8 | CSA/UL/TUV | 55 | 12" | 39.95 | 35.95 | 32.95 | 29.95 |
| 2167605 | Adda | AD0424HB-G70-LF | 24 | 40 x 40 x 10 | 6.2 | Ball | 90 | 2.16 | UL/CUL/TUV/CE | 26 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2133931 | Adda | AD0424HB-G73 | 24 | 40 x 40 x 10 | 6.7 | Ball | 90 | 2.16 | UL/CUL/TUV/CE | 25 | 12" ¹ | 10.95 | 9.95 | 8.95 | 7.95 |
| 2217924 | Thermactive | RDH4010B2 | 24 | 40 x 40 x 10 | 7.6 | Ball | 90 | 2.16 | UL/CUL/TUV/CE | 33 | 12" | 7.95 | 6.95 | 5.95 | 4.95 |
| 2158514 | Sunon | MB40202V2-0000-A99 | 24 | 40 x 40 x 20 | 7.7 | Vapo | 33 | 2.16 | UL/CUL/TUV/CE | 21 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2217932 | Thermactive | RDH4020B2 | 24 | 40 x 40 x 20 | 8.1 | Ball | 70 | 1.68 | UL/CUL/TUV/CE | 31 | 12" | 10.95 | 9.95 | 8.95 | 7.95 |
| 2133940 | Adda | AD0424UB-C56 | 24 | 40 x 40 x 20 | 9.6 | Ball | 90 | 2.16 | CE | 37 | 11" ² | 7.95 | 6.95 | 5.95 | 4.95 |
| 1708422 | Sunon | KDE2406PHS3 | 24 | 60 x 60 x 15 | 15 | Sleeve | 50 | 1.2 | UL/CUL/TUV/CE | 31 | 12" | 7.95 | 6.95 | 6.25 | 5.59 |
| 2188588 | Sunon | ME60152V2-0000-A99 | 24 | 60 x 60 x 15 | 21.9 | Vapo | 85 | 2.04 | UL/CUL/TUV | 32.5 | 12" | 8.95 | 7.95 | 6.95 | 6.25 |
| 2134029 | Adda | AD0624MB-C70GL | 24 | 60 x 60 x 20 | 14.5 | Ball | 80 | 1.92 | UL/CUL/CE | 28 | 12" | 8.95 | 7.95 | 6.95 | 6.25 |
| 2224219 | Adda | AD0624MS-A70GL | 24 | 60 x 60 x 25 | 18 | Sleeve | 80 | 1.92 | UL/CUL/TUV | 27 | 12" | 6.95 | 6.25 | 5.59 | 4.95 |
| 189861 | Jamicon | JF0625B2M-005-065R | 24 | 60 x 60 x 25 | 19 | Ball | 130 | 3.1 | UL/TUV/CE | 31.3 | 10" | 8.95 | 7.95 | 6.95 | 6.25 |
| 2228244 | Frilec | 2406PTB1 | 24 | 60 x 60 x 25 | 23.5 | Ball | 60 | 1.4 | UL/CSA/CE | 33 | 12" | 8.95 | 7.95 | 6.95 | 6.25 |
| 1928071 | Adda | AD0624HB-A70GL | 24 | 60 x 60 x 25 | 25 | Ball | 150 | 3.6 | UL/CSA/TUV/CE | 36.9 | 12" | 8.95 | 7.95 | 6.95 | 6.25 |

¹ 3 leads; speed sensor ² 3 leads; locked rotor protection ³ 4 leads; wired for Dell proprietary PWM circuit control w/ tach (blue), lock rotor (yellow) & fan guard

⁴ 4 leads with speed sensor, PWM control (All fans operate to their specs with or without the additional optional wire functions) † Blower

For case mounting screws, P/Ns 2188481 or 2188490, page 78

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212628



2155065



2218046

mm to Inches Conversion Chart

| mm | 6 | 6.8 | 10 | 15 | 20 | 25 | 28 | 30 | 32 | 35 | 38 | 40 | 45 | 51 | 60 | 70 | 75 | 76 | 80 | 92 | 94 | 95 | 97 | 120 | 125 | 126 | 127 | 150 | 172 |
|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Inches | 0.24 | 0.27 | 0.40 | 0.60 | 0.80 | 1.00 | 1.10 | 1.18 | 1.26 | 1.40 | 1.50 | 1.60 | 1.80 | 2.00 | 2.36 | 2.76 | 2.95 | 2.99 | 3.15 | 3.63 | 3.70 | 3.74 | 3.82 | 4.72 | 4.92 | 4.96 | 5.00 | 5.90 | 6.77 |

| Part No. | Manufacturer | Mfr. Part No. | Voltage (VDC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection (Leads) | Pricing | | | |
|----------|---------------|--------------------|---------------|---------------------|----------------|-----------|--------------|---------------|------------------|-------------|--------------------|---------|--------|--------|--------|
| | | | | | | | | | | | | 1 | 10 | 50 | 100 |
| 212628 | Adda | AD0624UB-A71GL | 24 | 60 x 60 x 25 | 26.9 | Ball | 160 | 3.84 | UL/CUL/CE | 37.9 | 13" | \$8.95 | \$7.95 | \$6.95 | \$6.25 |
| 2242227 | Adda | AD0824MX-A70GL | 24 | 80 x 80 x 25 | 31 | Hypro | 100 | 2.4 | UL/CUL/TUV | 28 | 12" | 8.95 | 7.95 | 6.95 | 5.95 |
| 290029 | Jamicon | JF0825B2M | 24 | 80 x 80 x 25 | 32.52 | Dual Ball | 130 | 3.1 | UL/CUL/TUV/CE | 27.8 | 10" | 9.95 | 8.95 | 7.95 | 6.95 |
| 136161 | Jamicon | JF0825B2H | 24 | 80 x 80 x 25 | 38.74 | Dual Ball | 150 | 3.6 | UL/CSA/TUV | 31 | 10" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2158565 | Sunon | EE8025B1-0000-A99 | 24 | 80 x 80 x 25 | 41 | Ball | 75 | 1.8 | UL/CUL/TUV/CE | 33 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 1928388 | Adda | AD0824UB-A72GL | 24 | 80 x 80 x 25 | 50 | Ball | 260 | 6.24 | UL/CUL/CE/TUV | 41 | 12" 2 | 10.95 | 9.95 | 8.95 | 7.95 |
| 2134150 | Adda | AQ0824UB-A71GL * | 24 | 80 x 80 x 25 | 50 | Ball | 260 | 6.24 | CE | 41 | 12" | 11.95 | 10.95 | 9.95 | 8.95 |
| 2211160 | IMC Boxer | 3113PL05WB30 | 24 | 80 x 80 x 32 | 28 | Ball | 130 | 3.1 | UL/CUL | 31 | 12" | 5.95 | 5.49 | 4.95 | 4.49 |
| 2220171 | Adda | AD0824UB-Y51 | 24 | 80 x 80 x 32 | 55.3 | Ball | 180 | 4.3 | UL/CUL/TUV/CE | 43.8 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 1951051 | Mechatronics | E9225L24B1-FS | 24 | 92 x 92 x 25 | 35 | Ball | 85 | 2.04 | UL/CUL | 27 | 12" 1 | 4.95 | 3.95 | 2.95 | 2.49 |
| 2203071 | NMB | 3610PL05W-B30 | 24 | 92 x 92 x 25 | 41 | Ball | 87 | 2.1 | UL | 33 | 11" | 5.95 | 4.95 | 4.49 | 3.95 |
| 2203080 | Nidec | TA350DC-A31394-55 | 24 | 92 x 92 x 25 | 42 | Ball | 140 | 3.12 | UL/CSA | 40 | 3" w/ conn | 2.95 | 2.75 | 2.49 | 1.95 |
| 2215751 | NMB/IMC | 3610PL-05W-B20-100 | 24 | 92 x 92 x 25 | 43 | Ball | 90 | 2.2 | UL/CUL/TUV | 39 | 12" | 4.95 | 4.49 | 3.95 | 3.49 |
| 2155065 | Delta | AFB0924H-R00 | 24 | 92 x 92 x 25 | 51.2 | Ball | 200 | 4.8 | UL/CSA/CE | 34 | 12" 2 | 8.95 | 7.95 | 6.95 | 5.95 |
| 2158303 | Sunon | EE9225B1-0000-A99 | 24 | 92 x 92 x 25 | 51.5 | Dual Ball | 87 | 2.1 | UL/TUV/CE | 34 | 12" | 10.95 | 9.95 | 8.95 | 7.95 |
| 1928329 | Adda | AD0924XB-A71GL | 24 | 92 x 92 x 25 | 67 | Ball | 250 | 6.0 | UL/CUL/TUV/CE | 42 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2230977 | Delta | AFB0924VH | 24 | 92 x 92 x 25 | 68 | Ball | 220 | 5.2 | UL/CSA/DE/CE | 45 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2228199 | Sunon | KDE2412PTB2-6A | 24 | 120 x 120 x 25 | 80 | Ball | 230 | 5.5 | UL/CUL/CE/TUV | 36.5 | 12" | 11.95 | 10.95 | 9.95 | 8.95 |
| 2215127 | Adda | AD1224MB-A71GL | 24 | 120 x 120 x 25 | 80.5 | Ball | 170 | 4.08 | UL/CUL/TUV/CE | 38 | 12" | 11.95 | 10.95 | 9.95 | 8.95 |
| 2218046 | Adda | AD1224UB-A70GL | 24 | 120 x 120 x 25 | 99 | Ball | 250 | 6.0 | UL/CUL/TUV/CE | 43.3 | 11" | 12.95 | 11.95 | 10.95 | 9.95 |
| 2197556 | Coolmax | 1225M24B-ZD1 | 24 | 120 x 120 x 25 | 103.8 | Dual Ball | 300 | 7.2 | UL/TUV | 42.5 | 6" w/ conn | 8.95 | 7.95 | 6.95 | 6.25 |
| 2211021 | EBM Papst | 4124GX | 24 | 120 x 120 x 38 | 87 | Sleeve | 138 | 3.3 | UL/CSA/CE | 43 | Terminals | 9.95 | 8.95 | 7.95 | 6.95 |
| 694524 | Jamicon | JF1238B2MR-R | 24 | 120 x 120 x 38 | 101.3 | Ball | 230 | 5.28 | UL/CSA/TUV/CE | 39.1 | 9" | 15.95 | 14.95 | 13.95 | 12.49 |
| 2215478 | Conair Rotron | MD24B2 | 24 | 120 x 120 x 38 | 110 | Ball | 250 | 6.0 | UL/CSA/TUV/CE | 50 | Terminals | 10.95 | 9.95 | 8.95 | 7.95 |
| 1809910 | Sunon | KD2412PMSX-6A | 24 | 120 x 120 x 38 | 119 | Sleeve | 300 | 7.2 | UL/CUL/TUV/CE | 45 | 12" | 7.95 | 6.95 | 6.25 | 5.59 |
| 2197433 | EBM Pabst | 4214NHHR | 24 | 120 x 120 x 38 | 120.7 | Ball | 313 | 7.5 | UL/CSA/CE | 49 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 144761 | Mechatronics | F1238X24B-FS | 24 | 120 x 120 x 38 | 140 | Dual Ball | 500 | 12 | UL/CUL/TUV | 45 | 12" | 10.95 | 9.95 | 8.95 | 7.95 |
| 2121341 | Adda | AD0848UB-Y51 | 48 | 80 x 80 x 32 | 55.3 | Ball | 140 | 6.72 | UL/CUL/TUV/CE | 44 | 12" | 7.95 | 6.95 | 5.95 | 5.49 |
| 2135371 | Adda | AD0948MB-F91DS(M) | 48 | 92 x 92 x 38 | 93.5 | Dual Ball | 160 | 7.6 | CE | 48.5 | 12" | 9.95 | 8.95 | 7.95 | 6.95 |
| 2203400 | Adda | AD1248HB-A71GL | 48 | 120 x 120 x 25 | 87.8 | Ball | 100 | 4.8 | UL/CUL/CE/TUV | 39.1 | 12" | 10.95 | 9.95 | 8.95 | 7.95 |
| 2134192 | Adda | AD1248UB-Y51 | 48 | 120 x 120 x 32 | 131 | Ball | 210 | 10.08 | UL/CUL/TUV/CE | 48.4 | 11" | 10.95 | 9.95 | 8.95 | 7.95 |
| 2134352 | Adda | AD1348HB-F53 | 48 | 127 x 127 x 38 | 161 | Ball | 230 | 11 | UL/CUL/TUV/CE | 53 | 11" 1 | 17.95 | 15.95 | 14.49 | 12.95 |
| 1954711 | Delta | EFB1348HSE-SV06 | 48 | 127 x 127 x 38 | 168 | Ball | 360 | 20 | UL/CSA/DE/CE | 52 | 26" 1 | 19.95 | 17.95 | 15.95 | 14.49 |

¹ 3 leads; speed sensor ² 3 leads; locked rotor protection

(All fans operate to their specs with or without the additional optional wire functions)

* Waterproof

For case mounting screws, P/Ns 2188481 or 2188490, page 78

Fan Guards, Screws & Aluminum Washable Filters

* Web Code: UAR

• Guards and filters fit all fans. Please match by size dimension.

Example: P/N 300557 fan (80mm) matches P/N 31924 metal guard (80mm).

2188481



Fig. 1



Fig. 2



Fig. 3



| Part No. | mm | Description | Fig. | 1 | 10 | 50 | 100 |
|----------|------|------------------------------|------|--------|--------|--------|---------|
| 2188481 | 5x10 | Fan frame screw, chrome | — | \$.15 | \$.09 | \$.07 | \$.049 |
| 123502 | 40 | Metal (chrome) guard | 1 | .59 | .55 | .49 | .45 |
| 120038 | 60 | Metal (chrome) guard | 1 | .65 | .59 | .55 | .49 |
| 687666 | 60 | Metal (black anodized) guard | 2 | .85 | .79 | .75 | .69 |
| 31924 | 80 | Metal (chrome) guard | 1 | .69 | .65 | .59 | .55 |
| 1928433 | 80 | Metal (black anodized) guard | 2 | .79 | .69 | .65 | .59 |
| 2172869 | 80 | Metal (gold plated) guard | 2 | .55 | .49 | .45 | .39 |
| 123511 | 92 | Metal (chrome) guard | 1 | .75 | .69 | .65 | .59 |
| 2135689 | 92 | Metal (black anodized) guard | 2 | .89 | .79 | .69 | .59 |
| 2172877 | 92 | Metal (gold plated) guard | 2 | .65 | .55 | .45 | .39 |
| 25735 | 120 | Metal (chrome) guard | 1 | .79 | .75 | .69 | .65 |
| 695068 | 120 | Metal (black anodized) guard | 2 | 1.09 | .99 | .89 | .79 |

| Part No. | mm | Description | Fig. | 1 | 10 | 50 | 100 |
|----------|-----|------------------------------|------|--------|--------|--------|--------|
| 695076 | 127 | Metal (chrome) guard | 1 | \$.79 | \$.69 | \$.59 | \$.49 |
| 1811198 | 172 | Metal (chrome) guard | 1 | .89 | .79 | .69 | .59 |
| 1952290 | 80 | Plastic guard only | 3 | .49 | .45 | .39 | .35 |
| 1952661 | 92 | Plastic guard only | 3 | .59 | .55 | .49 | .45 |
| 1952695 | 40 | Plastic guard w/ mesh | 4 | 1.59 | 1.49 | 1.35 | 1.25 |
| 1952708 | 60 | Plastic guard w/ mesh | 5 | 1.65 | 1.49 | 1.39 | 1.29 |
| 2158135 | 80 | Plastic guard w/ mesh | 4 | 1.65 | 1.49 | 1.39 | 1.29 |
| 138562 | 80 | Plastic guard w/ mesh (clip) | 5 | 1.79 | 1.69 | 1.59 | 1.45 |
| 229665 | 92 | Plastic guard w/ mesh | 4 | 1.39 | 1.29 | 1.19 | 1.05 |
| 196817 | 120 | Plastic guard w/ mesh | 4 | 2.19 | 2.09 | 1.95 | 1.79 |
| 138580 | 80 | Alum. washable filter | 6 | 2.25 | 1.95 | 1.79 | 1.59 |
| 130105 | 120 | Alum. washable filter | 6 | 3.49 | 3.15 | 2.75 | 2.49 |

Fig. 4



Fig. 5



Fig. 6



*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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120 & 220VAC Tubeaxial Fans

NEW
MARKED IN PINK

COMMONWEALTH™



* Web Code: ABJ



2126096

2228287

2205624

102892

| Part No. | Manufacturer | Mfr. Part No. | Voltage (VAC) | Size mm (W x H x D) | Air Flow (CFM) | Bearing | Current (mA) | Power (Watts) | Agency Approvals | Noise (dBA) | Connection | Pricing | | | |
|----------|---------------|---------------------|---------------|---------------------|----------------|---------|--------------|---------------|------------------|-------------|------------|---------|---------|---------|---------|
| | | | | | | | | | | | | 1 | 10 | 50 | 100 |
| 213867 | Fulltech | UF60D11BWH | 120 | 60 x 60 x 30 | 10.2 | Ball | 35 | 4 | UL/CUL/VDE/CE | 28 | 12" leads | \$17.95 | \$16.49 | \$15.95 | \$14.49 |
| 2230660 | Thermocool | G8025HAS | 120 | 80 x 80 x 25 | 23 | Sleeve | 130 | 13 | UL/CUL/TUV/CE | 30 | 12" leads | 10.95 | 9.95 | 8.95 | 7.95 |
| 146078 | Common Wealth | FP108AX-S1-B | 120 | 80 x 80 x 25 | 23 | Ball | 180 | 14 | UL/CE | 29 | 12" leads | 15.95 | 14.49 | 12.95 | 11.95 |
| 300557 | Fulltech | UF80B11SWH | 120 | 80 x 80 x 25 | 24 | Sleeve | 140 | 14 | UL/CUL/TUV/CE | 35 | 12" leads | 13.95 | 12.95 | 11.95 | 10.95 |
| 2228279 | Mechatronics | UF80A12BWL | 120 | 80 x 80 x 38 | 25 | Ball | 110 | 9 | UL/CSA | 32 | 11" leads | 14.95 | 13.49 | 11.95 | 10.95 |
| 300600 | Fulltech | UF80A11BWH | 120 | 80 x 80 x 38 | 29 | Ball | 120 | 12 | UL/CUL/TUV/CE | 36 | 12" leads | 15.95 | 14.49 | 12.95 | 11.49 |
| 300389 | Fulltech | UF80A11BTH | 120 | 80 x 80 x 38 | 30 | Ball | 120 | 12 | UL/CUL/TUV/CE | 36 | Terminals | 15.95 | 14.49 | 12.95 | 11.49 |
| 2126096 | Common Wealth | FP-108B** | 120 | 92 x 92 x 25 | 22 | Ball | 60 | 8 | UL/CSA | 24 | 15" leads | 9.95 | 8.95 | 7.95 | 6.95 |
| 2230678 | Thermocool | G9225HAS | 120 | 92 x 92 x 25 | 34 | Sleeve | 140 | 13 | UL/CUL/TUV/CE | 40 | Terminals | 10.95 | 9.95 | 8.95 | 7.95 |
| 303467 | Sunon | SF11592A-1092HBL.GN | 120 | 92 x 92 x 25 | 37 | Ball | 110 | 12 | UL/CSA/TUV/CE | 40 | 12" leads | 12.95 | 11.95 | 10.95 | 9.95 |
| 2135275 | Common Wealth | FP-108JC | 120 | 92 x 92 x 38 | 45 | Sleeve | 150 | 10 | UL/CSA/CE | 37 | 12" leads | 13.95 | 12.49 | 10.95 | 9.95 |
| 1810048 | Sunon | SP101AT-1122HBL.GN | 120 | 120 x 120 x 25 | 78 | Ball | 180 | 18 | UL/CUL/TUV/CE | 46 | 12" leads | 16.95 | 15.49 | 13.95 | 12.49 |
| 124063 | Sunon | SP101AT-1122HBL.GN | 120 | 120 x 120 x 25 | 78 | Ball | 180 | 18 | CSA/TUV/CE | 46 | Terminals | 16.95 | 15.49 | 13.95 | 12.49 |
| 2230379 | EBM PABST | 4800N | 120 | 120 x 120 x 38 | 57.1 | Sleeve | 78 | 9 | UL/CSA/CE | 32 | Terminals | 14.95 | 13.49 | 11.95 | 10.95 |
| 303361 | Fulltech | UF12A11BTL1 | 120 | 120 x 120 x 38 | 64 | Ball | 80 | 15 | UL/CUL/TUV/CE | 37 | Terminals | 14.95 | 13.49 | 11.95 | 10.95 |
| 2230694 | Thermocool | G12038MAB | 120 | 120 x 120 x 38 | 85 | Ball | 220 | 19 | UL/CUL/TUV/CE | 44 | Terminals | 12.95 | 11.95 | 10.95 | 9.95 |
| 2230686 | Thermocool | G12038HAS | 120 | 120 x 120 x 38 | 95 | Sleeve | 280 | 21 | UL/CUL/TUV/CE | 48 | Terminals | 11.95 | 10.95 | 9.95 | 8.95 |
| 106586 | Common Wealth | FP108-1-S1/T | 120 | 120 x 120 x 38 | 105 | Sleeve | 180 | 12 | UL/CSA/CE | 47 | Terminals | 12.95 | 11.95 | 10.95 | 9.95 |
| 16935 | Common Wealth | FP108-1-S1-B/T | 120 | 120 x 120 x 38 | 105 | Ball | 200 | 17 | UL/CSA/TUV/CE | 47 | Terminals | 13.95 | 12.49 | 11.95 | 10.49 |
| 1707163 | Sunon | SP101A-1123HBL.GN | 120 | 120 x 120 x 38 | 107 | Ball | 180 | 18 | UL/CSA/TUV | 50 | 12" leads | 15.95 | 14.49 | 12.95 | 11.49 |
| 2125931 | Common Wealth | FP108-1 | 120 | 120 x 120 x 38 | 112 | Ball | 250 | 19 | UL/CUL/TUV/CE | 45 | Terminals | 13.95 | 12.49 | 11.49 | 9.95 |
| 102884 | Sunon | SP100A-1123XBT.GN | 120 | 120 x 120 x 38 | 117 | Ball | 240 | 20 | UL/CUL/TUV/CE | 50 | Terminals | 14.95 | 13.95 | 12.95 | 11.95 |
| 2230141 | Fulltech | UF13A11BTH | 120 | 127 x 127 x 38 | 120 | Ball | 160 | 12 | UL/CUL/TUV/CE | 50 | Terminals | 19.95 | 17.95 | 15.95 | 14.49 |
| 2230707 | Thermocool | G13538HAS | 120 | 135 x 135 x 38 | 122 | Sleeve | 340 | 25 | UL/CUL/TUV/CE | 53 | 12" leads | 13.95 | 12.49 | 11.25 | 10.49 |
| 2230715 | Thermocool | G15050HAS | 120 | 150 x 150 x 50 | 198 | Sleeve | 400 | 38 | UL/CUL/TUV/CE | 59 | 12" leads | 20.95 | 18.95 | 16.95 | 15.49 |
| 2227701 | ETRI | 148VE0282030 | 120 | 172 x 150 x 38 | 122 | Ball | 100 | 11 | UL/CSA/CE | 36 | Terminals | 29.95 | 26.95 | 24.95 | 21.95 |
| 2230723 | Thermocool | G17050HASB | 120 | 172 x 172 x 51 | 198 | Ball | 400 | 38 | UL/CUL/TUV/CE | 59 | Terminals | 20.95 | 18.95 | 16.95 | 15.49 |
| 189684 | Fulltech | UF15PC11BTH | 120 | 172 x 150 x 51 | 226 | Ball | 250 | 30 | UL/CUL/TUV/CE | 58 | Terminals | 36.95 | 34.95 | 32.95 | 29.95 |
| 212582 | Fulltech | UF15PC11BWH | 120 | 172 x 150 x 51 | 226 | Ball | 250 | 30 | UL/CUL/TUV/CE | 58 | 12" leads | 36.95 | 34.95 | 32.95 | 29.95 |
| 2230117 | ADDA | AA8252HB-AT | 220 | 80 x 80 x 25 | 21 | Ball | 60 | 13.8 | UL/CUL/TUV/CE | 27.8 | Terminals | 12.95 | 11.95 | 10.95 | 9.95 |
| 100918 | Sunon | SF23080A/2083HSL.GN | 220 | 80 x 80 x 38 | 30 | Sleeve | 60 | 13.5 | UL/CSA/TUV/CE | 35 | 12" leads | 15.95 | 13.95 | 12.49 | 10.95 |
| 355630 | Fulltech | UF-80A23-BTH-R | 220 | 80 x 80 x 38 | 30 | Ball | 60 | 12 | UL/CSA/VDE/CE | 36 | Terminals | 12.95 | 11.49 | 10.25 | 9.49 |
| 2210837 | EG&G Rotron | SU3G1 | 220 | 80 x 80 x 38 | 32 | Sleeve | 70 | 10 | UL/CSA | 39 | 12" leads | 8.95 | 7.95 | 6.95 | 6.25 |
| 303459 | Sunon | DP200A-2123XBL.GN | 220 | 120 x 120 x 38 | 117 | Ball | 120 | 21 | UL/CSA/TUV/CE | 50 | 12" leads | 15.95 | 14.95 | 13.95 | 12.95 |
| 102892 | Sunon | DP200A-2123XBT.GN | 220 | 120 x 120 x 38 | 117 | Ball | 120 | 21 | UL/CSA/TUV/CE | 50 | Terminals | 17.95 | 15.95 | 14.49 | 12.95 |
| 2258419 | Fulltech | UF12A1223BWH* | 115/230 | 120 x 120 x 38 | 92/106 | Ball | 260/120 | 23 | UL/CUL/TUV/CE | 42/46 | 12" leads | 15.95 | 14.49 | 12.95 | 11.59 |
| 2228287 | Papst | RER125-19/56 | 230 | 138 x 40 | 61.2 | Ball | 120 | 19 | UL/CSA/TUV/CE | 65 | 15" leads | 39.95 | 35.95 | 32.95 | 29.95 |
| 2230424 | Commonwealth | FP-108EX (S-1) | 220 | 172 x 150 x 51 | 210 | Ball | 220 | 32 | UL/CSA/TUV/CE | 50 | Terminals | 34.95 | 31.49 | 27.95 | 24.95 |
| 2205624 | Adda | AK1752HB-LF(AT) | 220 | 172 x 150 x 51 | 210 | Ball | 160 | 36.8 | UL/CUL/TUV/CE | 65 | Terminals | 39.95 | 37.95 | 34.95 | 32.49 |

* 4 wire leads, dual voltage

** 24 AWG quick disconnect terminals

For case mounting screws, P/Ns 2188481 or 2188490, page 78



DC & AC Plug Fan Power Cords

For Fans with Terminal Connection

* Web Code: GAE

| Part No. | Description | Fig. | Length | 1 | 10 | 100 | 250 |
|----------|---------------------------|------|--------|--------|--------|--------|--------|
| 28564 | Straight pigtail fan cord | 1A | 24" | \$1.49 | \$1.25 | \$.99 | \$.89 |
| 2076658 | Straight pigtail fan cord | 1A | 36" | 1.59 | 1.45 | 1.29 | 1.15 |
| 1952548 | 45° pigtail fan cord | 2A | 24" | 1.59 | 1.35 | 1.09 | .99 |
| 104192 | 90° pigtail fan cord | 3A | 24" | 1.59 | 1.35 | 1.09 | .99 |
| 1952572 | Straight AC plug fan cord | 1B | 72" | 3.95 | 3.59 | 3.19 | 2.49 |
| 1952581 | 45° AC plug fan cord | 2B | 72" | 4.95 | 4.59 | 3.95 | 3.49 |

| REGULATED SWITCHING TABLE-TOP POWER SUPPLIES — BEST SELLERS | | | | | | | | | |
|---|---------|---------|------|---------|----------|---------|---------|------|---------|
| Part No. | Voltage | Current | Page | Price | Part No. | Voltage | Current | Page | Price |
| 2227807 | 5VDC | 5A | 95 | \$15.95 | 2229950 | 12VDC | 10A | 88 | \$49.95 |
| 2229482 | 12VDC | 1.5A | 95 | 11.95 | 1940619 | 15VDC | 3.33A | 96 | 12.49 |
| 2197927 | 12VDC | 3A | 95 | 13.95 | 1950913 | 24VDC | 2.5A | 96 | 19.95 |
| 2079357 | 12VDC | 3.34A | 95 | 16.95 | 2078338 | 24VDC | 3.75A | 96 | 28.95 |
| 2218151 | 12VDC | 5A | 96 | 16.95 | 2228931 | 48VDC | 0.52A | 96 | 11.95 |
| 2230230 | 12VDC | 6A | 96 | 17.95 | 2218100 | 48VDC | 1.45A | 96 | 16.95 |



2218151



1950913

AC-to-AC Wall Adapters



AC-to-AC Wall Adapters

Input: 120VAC @ 60Hz

*Web Code: ABQ

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Female



Female Right Angle



Male



Screw Terminals



2202773



2229386

| Part No. | Manufacturer | Product No. | Output Rating | | Output Connector ID x OD mm Female/Male | Size (H" x W" x D") | Case Color | Output Cord Length | Wt. (lbs.) | Agency Approvals | Pricing | | | |
|----------|--------------|----------------------|------------------|-----------------|---|------------------------|---------------|--------------------------|---------------|---------------------|---------|--------|--------|--------|
| | | | Voltage (VAC) | Current (mA) | | | | | | | 1 | 10 | 50 | 100 |
| 2082521 | Arndt | 5-2634 | 5 | 400 | 1.7mm x 5.5mm right angle F | 2.0 x 1.4 x 1.3 | White | 6' | 0.4 | UL/CSA | \$1.95 | \$1.75 | \$1.49 | \$1.25 |
| 2230651 | ReliaPro | ABU050050R | 5 | 500 | 2.1mm x 5.5mm F | 2.7 x 1.9 x 1.7 | Black | 6' | 0.9 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.95 |
| 100061 | ReliaPro | ACU090050 | 9 | 500 | 2.1mm x 5.5mm F | 2.7 x 1.9 x 1.7 | Black | 6' | 0.6 | UL/CUL | 8.95 | 7.95 | 6.95 | 5.95 |
| 2202773 | Bogen | PI-41-43A | 9 | 780 | 2.1mm x 5.5mm right angle F | 2.4 x 2.0 x 1.6 | Black | 6' | 0.6 | UL/CSA | 7.95 | 6.95 | 6.25 | 5.59 |
| 102234 | ReliaPro | ACU090100 | 9 | 1000 | 2.1mm x 5.5mm F | 2.5 x 2.0 x 1.7 | Black | 6' | 0.6 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 157041 | ReliaPro | ACU090100E8942 | 9 | 1000 | 2.5mm x 5.5mm F | 2.1 x 2.1 x 1.6 | Black | 6' | 0.6 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 2227444 | ReliaPro | ADU090150 | 9 | 1500 | 2.1mm x 5.5mm F | 2.9 x 2.3 x 1.8 | Black | 6' | 0.9 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 112336 | ReliaPro | ACU090150A2231 | 9 | 1500 | 2.5mm x 5.5mm F | 2.5 x 2.2 x 2.0 | Black | 6' | 0.9 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 101258 | ReliaPro | ACU120050 | 12 | 500 | 2.1mm x 5.5mm F | 2.5 x 2.0 x 1.7 | Black | 6' | 0.6 | UL/CUL | 8.95 | 7.95 | 6.95 | 5.95 |
| 2179614 | ReliaPro | ACU120050R | 12 | 500 | 2.5mm x 5.5mm F | 2.5 x 2.0 x 1.7 | Black | 6' | 0.4 | UL/CUL | 8.95 | 7.95 | 6.95 | 5.95 |
| 10081 | ReliaPro | AD-1201000AU1 | 12 | 1000 | 2.1mm x 5.5mm F | 2.5 x 2.0 x 1.6 | Black | 6' | 0.7 | UL/CUL | 9.95 | 8.95 | 7.95 | 7.29 |
| 100167 | ReliaPro | ACU120100D0531 | 12 | 1000 | 2.5mm x 5.5mm F | 3.2 x 2.4 x 2.0 | Black | 6' | 0.7 | UL/CUL | 9.95 | 8.95 | 7.95 | 7.29 |
| 10428 | ReliaPro | ACU120100Z9121 | 12 | 1000 | 3.5mm M | 2.6 x 2.4 x 2.0 | Black | 6' | 0.6 | UL/CUL | 8.95 | 7.95 | 6.95 | 6.29 |
| 2167576 | Arndt | AM-121200A | 12 | 1200 | 2.1mm x 5.5mm right angle F | 3.2 x 2.1 x 1.9 | Black | 6' | 0.9 | UL/CSA | 6.95 | 6.25 | 5.49 | 4.95 |
| 167151 | ReliaPro | ADU120150 | 12 | 1500 | 2.1mm x 5.5mm F | 3.4 x 2.7 x 2.2 | Black | 6' | 1.5 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 307838 | ReliaPro | ADU120160H4120 | 12 | 1600 | 2.5mm x 5.5mm F | 2.9 x 2.3 x 1.9 | Black | 6' | 1.0 | UL/CUL | 12.95 | 11.95 | 10.95 | 9.95 |
| 206404 | ReliaPro | MGT1220 | 12 | 1670 | Screw terminals with green LED | 3.2 x 2.2 x 1.9 | White | — | 0.9 | UL | 9.95 | 8.95 | 7.95 | 7.29 |
| 2197581 | ReliaPro | GPU48120200WA00 | 12 | 2000 | 2.1mm x 5.5mm F | 3.3 x 2.6 x 2.2 | Black | 6' | 1.7 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.49 |
| 2227604 | ReliaPro | GPU481202000WA0-2.5 | 12 | 2000 | 2.5mm x 5.5mm F | 3.3 x 2.6 x 2.2 | Black | 6' | 1.7 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.49 |
| 2197847 | Arndt | A71235DC | 12 | 3500 | Stripped & tinned (Table-Top style) | 3.9 x 2.7 x 2.2 | Black | 6' | 2.1 | UL/CSA | 9.95 | 8.95 | 7.95 | 6.95 |
| 2202765 | Arndt | 240000000043 | 13.5 | 1000 | 2.1mm x 5.5mm F | 2.8 x 2.2 x 1.8 | Black | 6' | 0.6 | UL/CUL | 3.95 | 3.49 | 2.95 | 2.49 |
| 171408 | ReliaPro | ACU140050 | 14 | 500 | 2.1mm x 5.5mm F | 2.8 x 2.0 x 1.6 | Black | 6' | 0.6 | UL/CUL | 8.95 | 7.95 | 6.95 | 6.25 |
| 318684 | ReliaPro | ACU140085 | 14 | 850 | 2.5mm x 5.5mm right angle F | 2.5 x 2.0 x 1.7 | Black | 6' | 0.6 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 100108 | ReliaPro | ADU160100 | 16 | 1000 | 2.1mm x 5.5mm F | 2.5 x 2.2 x 1.9 | Black | 6' | 0.9 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 2227612 | ReliaPro | ADU160100-2.5 | 16 | 1000 | 2.5mm x 5.5mm F | 2.5 x 2.2 x 1.9 | Black | 6' | 0.9 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 2230635 | ReliaPro | MGT1640# | 16.5 | 2400 | Screw terminals with green LED | 3.2 x 2.2 x 1.9 | White | — | 0.9 | UL | 11.95 | 10.95 | 9.95 | 9.49 |
| 2217748 | Arndt | ZMCE-014 | 18 | 300 | Stripped/tinned | 2.3 x 1.6 x 1.4 | Black | 6' | 0.5 | UL/CUL | 4.95 | 4.49 | 3.95 | 3.49 |
| 2217916 | Arndt | 218054 | 18 | 500 | 2.1mm x 5.5mm F | 2.7 x 2.0 x 1.7 | Black | 6' | 0.6 | UL/CUL | 5.95 | 4.95 | 4.49 | 3.95 |
| 121216 | ReliaPro | ADU180100 | 18 | 1000 | 2.1mm x 5.5mm F | 3.1 x 2.7 x 1.9 | Black | 6' | 1.1 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 2227621 | ReliaPro | ADU180100-2.5 | 18 | 1000 | 2.5mm x 5.5mm F | 3.1 x 2.7 x 1.9 | Black | 6' | 1.1 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 2179622 | ReliaPro | AFU180200 | 18 | 2000 | 2.1mm x 5.5mm F | 3.4 x 2.7 x 2.1 | Black | 6' | 1.7 | — | 12.95 | 11.95 | 10.95 | 9.95 |
| 87581 | ReliaPro | ADU240050 | 24 | 500 | 2.1mm x 5.5mm F | 2.5 x 2.2 x 1.9 | Black | 6' | 0.9 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 140599 | ReliaPro | ADU240100D5531 | 24 | 1000 | 2.1mm x 5.5mm F | 3.0 x 2.2 x 1.9 | Black | 6' | 1.2 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 10102 | ReliaPro | ADU240100E0461 | 24 | 1000 | 3.5mm M | 3.0 x 2.2 x 1.9 | Black | 6' | 1.2 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 2100195 | ReliaPro | GPU572401500WA00 | 24 | 1500 | 2.1mm x 5.5mm F | 3.3 x 2.6 x 2.3 | Black | 6' | 1.7 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.95 |
| 2227639 | ReliaPro | GPU572401500WA00-2.5 | 24 | 1500 | 2.5mm x 5.5mm F | 3.3 x 2.6 x 2.3 | Black | 6' | 1.7 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.95 |
| 2230627 | ReliaPro | MGT2440# | 24 | 1600 | Screw terminals with green LED | 3.2 x 2.2 x 1.9 | White | — | 0.9 | UL | 11.95 | 10.95 | 9.95 | 9.49 |
| 2197548 | ReliaPro | GPU572402000WA00 | 24 | 2000 | 2.1mm x 5.5mm F | 3.3 x 2.6 x 2.2 | Black | 6' | 1.7 | UL/CUL | 15.95 | 14.49 | 12.95 | 11.49 |
| 2229386 | ReliaPro | MGT2450P | 24 | 2100 | Screw Terminal | 3.2 x 2.2 x 1.9 | White | — | 0.9 | UL | 17.75 | 15.95 | 14.49 | 12.95 |

Level VI efficiency

Power

REGULATED SWITCHING AC-to-DC WALL ADAPTERS — NEW ARRIVALS

| Part No. | Voltage | Current | Page | Price |
|----------|---------|---------|----------|--------|
| 2230408 | 5VDC | 0.75A | 90 | \$6.95 |
| 2188713 | 5VDC | 1.2A | 90 | 5.95 |
| 2227735 | 5VDC | 1.5A | 90 | 7.95 |
| 2230133 | 6VDC | 0.5A | 91 | 8.95 |
| 2228965 | 9VDC | 1.0A | 90 | 8.95 |
| 2229183 | 12VDC | 1.0A | 90 | 6.95 |
| 2229765 | 12VDC | 1.0A | 90 | 8.95 |



2230408



2167613

| Part No. | Voltage | Current | Page | Price |
|----------|---------|---------|----------|--------|
| 2230264 | 12VDC | 1.0A | 90 | \$7.95 |
| 2218142 | 12VDC | 1.5A | 90 | 8.95 |
| 2228922 | 12VDC | 2.0A | 91 | 10.95 |
| 2229845 | 12VDC | 3.5A | 91 | 12.95 |
| 2229888 | 24VDC | 1.0A | 91 | 12.95 |
| 2230416 | 24VDC | 1.0A | 91 | 10.95 |
| 2167613 | 24VDC | 2.0A | 91 | 15.95 |

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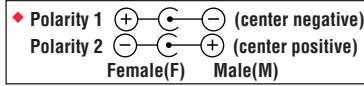


AC-to-DC Regulated Switching Wall Adapters



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We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call for details.



| Part No. | Manufacturer | Product No. | Output Rating | | Output Connector ID x OD mm Female/Male; Polarity ◆ | Input VAC @ Hz | Size (H" x W" x D") | Case Color | Output Cord Length | Wt. (lbs.) | Agency Approvals | Pricing | | |
|----------|---------------------|----------------------|----------------|-----------------|---|-------------------|------------------------|---------------|--------------------------|---------------|---------------------|---------|--------|--------|
| | | | Volt. (VDC) | Current (mA) | | | | | | | | 1 | 10 | 50 |
| 2138636 | Emerson | SW013US-050020US* | 5 | 200 | USB type-A F | 100-240@50-60 | 2.3 x 1.8 x 0.9 | Black | — | 0.2 | TUV/FCC | \$2.95 | \$2.59 | \$2.25 |
| 2230408 | Phihong | PSM04A-050 | 5 | 750 | 2.1mm x 5.5mm F 2 | 100-240 @50/60 | 2.7 x 1.8 x 1.0 | Black | 6' | 0.3 | UL/CUL | 6.95 | 6.25 | 5.95 |
| 2217730 | Arndt | ZMCE-039* | 5 | 1000 | Stripped/tinned | 100-240@50-60 | 2.3 x 1.3 x 1.0 | Black | 6' | 0.2 | UL/CUL/CEC | 6.95 | 6.25 | 5.95 |
| 2218193 | Arndt | MU05-J050100-A1* | 5 | 1000 | 1.3mm x 5.5mm F 2 | 100-240@50-60 | 2.6 x 1.3 x 1.5 | Black | 6' | 0.2 | UL/CUL/CEC | 6.95 | 5.95 | 5.49 |
| 252720 | ReliaPro | S08AA05010001* | 5 | 1000 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 2.9 x 1.1 x 1.7 | Black | 6' | 0.3 | UL/CUL | 9.95 | 8.95 | 7.95 |
| 2188713 | Globtek | WRQA1200MSBG2303 | 5 | 1200 | 2 x USB mini B right angle | 100-240@50/60 | 2.9 x 1.7 x 1.3 | Black | 3' | 0.2 | UL/CUL/CE | 5.95 | 5.49 | 4.95 |
| 2229440 | Arndt | TSA1-050120WA* | 5 | 1200 | Stripped/Tinned | 100-240@50/60 | 2.1 x 1.8 x 1.1 | Black | 6' | 0.2 | UL/CUL | 7.95 | 6.95 | 6.25 |
| 2196318 | Mean Well | GSM06U05-P1J** | 5 | 1200 | 2.1mm x 5.5mm F 2 | 80-264@47-63 | 2.6 x 1.3 x 1.7 | Black | 4' | 0.3 | UL/CUL/TUV/CE | 9.75 | 8.65 | 7.95 |
| 2227735 | Arndt | EDF0500150A18A* | 5 | 1500 | 1.3mm x 3.5mm F 2 | 100-120@50-60 | 2.8 x 1.6 x 1.3 | Black | 6' | 0.2 | UL/CUL | 7.95 | 6.95 | 6.25 |
| 2209158 | CUI Inc | EPAS-101W-05* | 5 | 2000 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 2.4 x 1.7 x 1.0 | Black | 6' | 0.3 | UL/CUL | 7.95 | 6.95 | 5.95 |
| 2138741 | ReliaPro | CP0520 | 5 | 2000 | 2.5mm x 5.5mm F 1 | 100-240@47-63 | 3.0 x 1.1 x 1.6 | Black | 6' | 0.4 | UL/CUL/TUV | 6.95 | 5.95 | 4.95 |
| 2188537 | CUI Inc | EPAS-101W-05* | 5 | 2000 | 2.5mm x 5.5mm right angle F 2 | 100-240@50-60 | 2.4 x 1.7 x 1.0 | Black | 6' | 0.3 | UL/CUL | 6.95 | 6.25 | 5.95 |
| 2217617 | Seed Studio | 279011001 | 5 | 2100 | USB type-A F | 100-240@50-60 | 2.3 x 1.6 x 1.3 | Black | — | 0.2 | UL/CUL/FCC | 9.95 | 8.95 | 7.95 |
| 2138724 | Jentec | AF1805A* | 5 | 2500 | 2.1mm x 5.5mm right angle F 2 | 100-120@50-60 | 2.4 x 1.9 x 1.1 | Black | 6' | 0.3 | UL/CUL/CEC | 6.95 | 5.95 | 5.49 |
| 2158549 | ReliaPro | S15AA05025001* | 5 | 2500 | 2.5mm x 5.5mm right angle F 2 | 100-240@50-60 | 3.0 x 2.2 x 1.3 | Black | 6' | 0.3 | UL/CUL/CEC | 9.95 | 8.95 | 7.95 |
| 1952863 | Mean Well | GS18U05-P1J | 5 | 3000 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.5 | UL/CUL/CEC | 11.95 | 10.95 | 9.95 |
| 2230361 | Arndt | AD013S0530U | 5 | 3000 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 3.2 x 2.1 x 1.3 | Black | 4' | 0.4 | UL/CUL | 9.95 | 8.95 | 7.95 |
| 2225529 | Mean Well | GST18U05-P1J# | 5 | 3000 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.3 | UL/CUL/TUV/CE | 11.75 | 10.25 | 9.95 |
| 2135451 | Open Peak | LFS054000D-8AS | 5 | 4000 | 2.1mm x 5.5mm right angle F 2 | 90-132@47-63 | 3.3 x 2.0 x 1.5 | Black | 6' | 0.4 | UL/CUL/CEC | 10.95 | 9.95 | 8.95 |
| 379623 | Mean Well | GS25U05-P1J | 5 | 4000 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.5 | UL/CUL/CEC | 12.49 | 11.49 | 10.49 |
| 2225650 | Mean Well | GST25U05-P1J# | 5 | 4000 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.3 | UL/CUL/TUV/CE | 12.19 | 10.79 | 10.49 |
| 2218206 | Arndt | MU08A9075100-A1* | 7.5 | 1000 | 1.3mm x 3.5mm F 2 | 100-240@50-60 | 2.6 x 1.3 x 1.5 | Black | 6' | 0.2 | UL/CUL/CEC | 7.95 | 6.95 | 6.25 |
| 2225596 | Mean Well | GST18U07-P1J# | 7.5 | 2000 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.3 | UL/CUL/TUV/CE | 11.75 | 10.95 | 10.25 |
| 2172931 | ReliaPro | EA1006BU* | 9 | 660 | 2.1mm x 5.5mm F 1 | 90-264@47-63 | 2.1 x 1.4 x 1.0 | Black | 6' | 0.1 | UL/FCC/CEC | 7.95 | 6.95 | 6.25 |
| 2228965 | Arndt | CYSC24-090100-P-2.1 | 9 | 1000 | 2.1mm x 5.5mm F 2 | 100-120@50-60 | 2.4 x 1.9 x 1.3 | Black | 6' | 0.3 | UL/CUL/CEC | 8.95 | 7.95 | 6.95 |
| 2203741 | Arndt | CYSC24-090100-P* | 9 | 1000 | 2.5mm x 5.5mm F 2 | 100-120@50-60 | 2.4 x 1.9 x 1.3 | Black | 6' | 0.3 | UL/CUL/CEC | 8.95 | 7.95 | 6.95 |
| 1952847 | Mean Well | GS18U09-P1J | 9 | 2000 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.5 | UL/CUL/CEC | 11.95 | 10.95 | 10.49 |
| 2225609 | Mean Well | GST18U09-P1J# | 9 | 2000 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.3 | UL/CUL/TUV/CE | 11.75 | 10.25 | 9.49 |
| 2225676 | Mean Well | GST25U09-P1J# | 9 | 2770 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.3 | UL/CUL/TUV/CE | 12.19 | 10.79 | 9.95 |
| 380140 | Mean Well | GS25U09-P1J | 9 | 2780 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.5 | UL/CUL/CEC | 12.49 | 11.49 | 10.25 |
| 2173124 | ReliaPro | EA1030U† | 9 | 3000 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 3.9 x 1.7 x 1.2 | Black | 6' | 0.5 | UL/CUL/CEC | 13.95 | 12.49 | 10.95 |
| 2121578 | ReliaPro | ST-12500 | 12 | 500 | Screw terminals | 100-240@50-60 | 3.8 x 2.1 x 1.6 | Black | — | 0.3 | UL/CUL/CEC | 10.95 | 9.95 | 8.95 |
| 2151101 | Arndt | CNR2260 | 12 | 500 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 3.6 x 2.0 x 1.3 | Black | 6' | 0.3 | UL/CUL/CEC | 5.95 | 4.95 | 4.49 |
| 2224155 | Arndt | PS12V.75A5520PW* | 12 | 750 | 2.5mm x 5.5mm F 2 | 90-240@47-63 | 2.9 x 1.6 x 1.2 | Black | 6' | 0.2 | UL/CUL/CEC | 6.95 | 6.25 | 5.49 |
| 2224091 | Arndt | AMS8-1200750SU-1* | 12 | 750 | 2.5mm x 5.5mm F 2 | 100-120@50-60 | 2.9 x 1.6 x 1.1 | Black | 6' | 0.2 | UL/CUL/CEC | 6.95 | 6.25 | 5.49 |
| 2227436 | Arndt | DSA-12G-12AUS-12120† | 12 | 1000 | 2.1mm x 5.5mm F 2 | 100-120@50-60 | 2.7 x 1.6 x 1.1 | Black | 6' | 0.2 | UL/CUL/CEC | 7.95 | 6.95 | 6.25 |
| 2210802 | Arndt | HK-AD-120U100-US* | 12 | 1000 | 2.1mm x 5.5mm F 2 | 100-120@50-60 | 2.0 x 1.8 x 1.1 | Black | 6' | 0.2 | UL/CUL/CEC | 7.95 | 6.95 | 6.25 |
| 2230264 | Arndt | EN-US12V1000 | 12 | 1000 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 3.3 x 1.7 x 1.2 | Black | 3' | 0.2 | CE/FCC | 7.95 | 6.95 | 6.25 |
| 2229765 | Arndt | DSY12-120-100W-1 | 12 | 1000 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 2.8 x 1.6 x 1.1 | Black | 6' | 0.3 | UL/CUL | 8.95 | 7.95 | 6.95 |
| 1940774 | Mean Well | GS12U12-P1J | 12 | 1000 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 2.6 x 1.9 x 1.0 | Black | 6' | 0.3 | UL/CUL/CEC | 10.49 | 9.49 | 8.49 |
| 2229183 | Arndt | YU1201* | 12 | 1000 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 2.8 x 1.6 x 1.0 | Black | 3'6" | 0.2 | CE/FCC | 6.95 | 6.25 | 5.49 |
| 2121586 | ReliaPro | ST-121A | 12 | 1000 | Screw terminals | 100-240@50-60 | 3.8 x 2.1 x 1.6 | Black | — | 0.3 | UL/CUL/CEC | 13.95 | 12.49 | 11.25 |
| 2218142 | Arndt | AD817F10 | 12 | 1500 | 2.1mm x 5.5mm F 2 | 100-120@50-60 | 3.0 x 2.0 x 1.4 | Black | 6' | 0.3 | UL/CUL | 8.95 | 7.95 | 6.95 |
| 2209262 | Asian Power Devices | WA18G12U | 12 | 1500 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 3.0 x 1.9 x 1.3 | Black | 4' | 0.3 | UL/CUL/CEC | 9.95 | 8.95 | 7.95 |
| 1952855 | Mean Well | GS18U12-P1J | 12 | 1500 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.2 | UL/CUL/CEC | 11.95 | 10.95 | 10.49 |
| 2225537 | Mean Well | GST18U12-P1J# | 12 | 1500 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.3 | UL/CUL/TUV/CE | 11.75 | 10.25 | 9.95 |
| 2225465 | Mean Well | GSM18U12-P1J** | 12 | 1500 | 2.1mm x 5.5mm F 2 | 80-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.3 | UL/CUL/TUV/CE | 12.95 | 11.25 | 10.49 |
| 2082134 | ReliaPro | ST-122A | 12 | 2000 | Screw terminals | 100-240@50-60 | 3.8 x 2.1 x 1.6 | Black | — | 0.4 | UL/CUL/CEC | 16.95 | 15.49 | 13.95 |
| 380156 | Mean Well | GS25U12-P1J | 12 | 2080 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.5 | UL/CUL/CEC | 12.49 | 11.49 | 10.49 |
| 2225553 | Mean Well | GST25U12-P1J# | 12 | 2080 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 4' | 0.3 | UL/CUL/TUV/CE | 12.19 | 10.79 | 9.95 |

† RFI filter on cord * Stimline ** Medical rated # Level VI efficiency CEC

AC-to-DC Regulated Switching Wall Adapters

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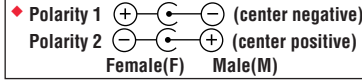


AC-to-DC Regulated Switching Wall Adapters (Continued)



Call for Additional OEM pricing.

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| Part No. | Manufacturer | Product No. | Output Rating | | Output Connector ID x OD mm Female/Male; Polarity ◆ | Input VAC @ Hz | Size (H" x W" x D") | Case Color | Output Cord Length | Wt. (lbs.) | Agency Approvals | Pricing | | |
|----------|--------------|---------------------|----------------|-----------------|---|-------------------|------------------------|---------------|--------------------------|---------------|---------------------|---------|--------|--------|
| | | | Volt. (VDC) | Current (mA) | | | | | | | | 1 | 10 | 50 |
| 2215726 | Arndt | P03WF-120B* | 12 | 2500 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 3.0 x 1.4 x 2.0 | Black | 6' | 0.3 | UL/CUL/CEC | \$10.95 | \$9.95 | \$8.95 |
| 2173116 | ReliaPro | KSAS0361200300HU-6† | 12 | 3000 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 3.9 x 1.7 x 1.2 | Black | 6' | 0.6 | UL/CUL/CEC | 13.49 | 11.95 | 11.49 |
| 2230643 | ReliaPro | ST-123A# | 12 | 3000 | Screw terminals | 100-240@50-60 | 3.8 x 2.1 x 1.6 | Black | — | 0.5 | UL/CUL | 17.95 | 16.49 | 14.95 |
| 196369 | Mean Well | GSM06U15-P1J** | 15 | 400 | 2.1mm x 5.5mm F 2 | 80-264@47-63 | 2.6 x 1.3 x 1.7 | Black | 6' | 0.3 | UL/CUL/TUV/CE | 9.75 | 8.65 | 7.95 |
| 2952871 | Mean Well | GS18U15-P1J | 15 | 1200 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.4 | Black | 6' | 0.4 | UL/CUL/CEC | 11.95 | 10.95 | 10.49 |
| 2225617 | Mean Well | GST18U15-P1J# | 15 | 1200 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.3 | UL/CUL/TUV/CE | 11.75 | 10.25 | 9.49 |
| 2225684 | Mean Well | GST25U15-P1J# | 15 | 1660 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.3 | UL/CUL/TUV/CE | 12.19 | 10.79 | 9.95 |
| 380173 | Mean Well | GS25U15-P1J | 15 | 1670 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.5 | UL/CUL/CE | 12.49 | 11.49 | 10.49 |
| 2173108 | ReliaPro | EA1030CU† | 15 | 2000 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 3.9 x 1.7 x 1.2 | Black | 6' | 0.6 | UL/CUL/CEC | 13.95 | 12.95 | 11.95 |
| 380191 | Mean Well | GS25U18-P1J | 18 | 1380 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 1.2 x 1.3 | Black | 6' | 0.5 | UL/CUL/CEC | 12.49 | 11.49 | 10.49 |
| 2225692 | Mean Well | GST25U18-P1J# | 18 | 1380 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.3 | UL/CUL/TUV/CE | 12.19 | 10.79 | 9.95 |
| 1952898 | Mean Well | GS18U24-P1J | 24 | 750 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.5 | UL/CUL/CEC | 11.95 | 10.95 | 10.49 |
| 2225545 | Mean Well | GST18U24-P1J# | 24 | 750 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.3 | UL/CUL/TUV/CE | 11.75 | 10.25 | 9.49 |
| 2121594 | ReliaPro | ST-241A | 24 | 1000 | Screw terminals | 100-240@50-60 | 3.8 x 2.1 x 1.6 | Black | — | 0.3 | UL/CUL/CEC | 15.95 | 14.49 | 12.95 |
| 2229888 | ReliaPro | MTR-08395# | 24 | 1000 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 3.4 x 2.7 x 2.2 | Black | 6' | 0.5 | UL/CUL/CEC | 12.95 | 11.95 | 10.95 |
| 2230416 | Phihong | PDA024A-1A0S-R | 24 | 1000 | 2.1mm x 5.5mm F 2 | 110-120@50-60 | 3.4 x 2.1 x 1.4 | Black | 4' | 0.3 | UL/CUL | 10.95 | 9.95 | 8.95 |
| 1953671 | ReliaPro | MPC-2400107 | 24 | 1000 | 2.5mm x 5.5mm F 2 | 120-240@50-60 | 3.4 x 2.7 x 2.2 | Black | 6' | 0.5 | UL/CSA | 14.95 | 13.49 | 11.95 |
| 380202 | Mean Well | GS25U24-P1J | 24 | 1040 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.5 | UL/CUL/CEC | 12.49 | 11.49 | 10.49 |
| 2225561 | Mean Well | GST25U24-P1J# | 24 | 1040 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.3 | UL/CUL/TUV/CE | 12.19 | 10.79 | 9.95 |
| 2167613 | ReliaPro | ST-242A | 24 | 2000 | Screw terminals | 100-240@50-60 | 3.8 x 2.1 x 1.6 | Black | 6' | 0.3 | — | 15.95 | 14.95 | 13.95 |
| 380220 | Mean Well | GS25U28-P1J | 28 | 890 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.6 | UL/CUL/CEC | 12.49 | 11.49 | 10.49 |
| 2225705 | Mean Well | GST25U28-P1J# | 28 | 900 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.3 | UL/CUL/TUV/CE | 12.19 | 10.79 | 9.95 |
| 2179391 | ReliaPro | PA1024-360HU | 36 | 670 | 2.5mm x 5.5mm F 2 | 90-264@47-63 | 2.7 x 1.8 x 1.3 | Black | 6' | 0.3 | UL/CUL/CEC | 12.95 | 11.95 | 11.49 |
| 2225713 | Mean Well | GST25U48-P1J# | 48 | 520 | 2.1mm x 5.5mm F 2 | 85-264@47-63 | 3.1 x 2.1 x 1.3 | Black | 6' | 0.3 | UL/CUL/TUV/CE | 12.49 | 12.19 | 10.79 |

† RFI filter on cord * Slimline ** Medical rated # Level VI efficiency — CEC



AC-to-DC "Slimline" Regulated Switching Wall Adapters



Output connector: 2.1mm x 5.5mm F2 (center positive)

• 2-wire AC input • Output cord length: 6' • Color: black • Input volt.: 100 – 240VAC @ 47-63Hz



| Part No. | Manufacturer | Output Rating | | Size (in.) (H x W x D) | Wt. (lbs.) | Pricing | | | | Part No. | Manufacturer | Output Rating | | Size (in.) (H x W x D) | Wt. (lbs.) | Pricing | | | |
|----------|--------------|----------------|-----------------|---------------------------|---------------|---------|--------|--------|--------|----------|--------------|----------------|-----------------|---------------------------|---------------|---------|--------|--------|--------|
| | | Volt. (VDC) | Current (mA) | | | 1 | 10 | 50 | 100 | | | Volt. (VDC) | Current (mA) | | | 1 | 10 | 50 | 100 |
| 2173010 | Phihong | 5 | 400 | 1.9x1.4x0.9 | 0.1 | \$4.95 | \$4.49 | \$3.95 | \$3.59 | 1950841 | ReliaPro | 9 | 1000 | 2.5x1.1x1.7 | 0.2 | \$10.95 | \$9.95 | \$8.95 | \$7.95 |
| 252701 | ReliaPro | 5 | 500 | 2.9x1.1x1.7 | 0.3 | 6.95 | 6.25 | 5.59 | 4.95 | 252779 | ReliaPro | 9 | 1200 | 2.9x1.3x2.2 | 0.3 | 11.49 | 10.25 | 9.49 | 8.95 |
| 2126125 | OEM | 5 | 800 | 1.9x1.6x0.9 | 0.1 | 6.95 | 5.95 | 5.49 | 4.95 | 252786 | ReliaPro | 9 | 1500 | 2.9x1.3x2.2 | 0.3 | 12.95 | 11.95 | 10.95 | 9.95 |
| 252720 | ReliaPro | 5 | 1000 | 2.5x1.1x1.7 | 0.2 | 9.95 | 8.95 | 7.95 | 6.95 | 252795 | ReliaPro | 12 | 250 | 2.5x1.1x1.7 | 0.2 | 8.95 | 7.95 | 6.95 | 6.25 |
| 2211098 | Phihong | 5 | 1000 | 2.6x1.4x1.1 | 0.2 | 6.95 | 6.25 | 5.59 | 4.95 | 2150758 | Arndt | 12 | 500 | 2.5x1.7x1.1 | 0.2 | 7.95 | 6.95 | 6.25 | 5.95 |
| 1940660 | Mean Well | 5 | 1000 | 2.6x1.3x1.9 | 0.2 | 9.49 | 8.49 | 7.95 | 7.25 | 252808 | ReliaPro | 12 | 500 | 2.5x1.1x1.7 | 0.2 | 8.95 | 7.95 | 6.95 | 6.25 |
| 252728 | ReliaPro | 5 | 1500 | 2.5x1.1x1.7 | 0.2 | 10.95 | 9.95 | 8.95 | 7.95 | 1940694 | Mean Well | 12 | 500 | 2.6x1.3x1.9 | 0.2 | 9.49 | 8.49 | 7.95 | 7.25 |
| 210894 | ReliaPro | 5 | 2000 | 2.9x1.4x2.2 | 0.2 | 10.95 | 9.95 | 8.95 | 7.95 | 2232825 | Arndt | 12 | 1000 | 2.4x1.6x1.1 | 0.3 | 10.95 | 9.95 | 8.95 | 7.95 |
| 2217772 | ReliaPro | 5 | 2000 | 3.0x1.6x1.2 | 0.2 | 11.95 | 10.95 | 9.95 | 8.95 | 252824 | ReliaPro | 12 | 1000 | 2.9x1.3x2.2 | 0.3 | 12.95 | 11.49 | 9.95 | 8.95 |
| 2230336 | DVE | 5 | 2500 | 2.7x1.7x1.1 | 0.3 | 10.95 | 9.95 | 8.95 | 7.95 | 252833 | ReliaPro | 12 | 1250 | 2.9x1.3x2.2 | 0.3 | 13.95 | 12.95 | 11.95 | 10.95 |
| 252736 | ReliaPro | 5 | 2500 | 2.9x1.3x2.2 | 0.3 | 12.95 | 11.95 | 10.95 | 9.95 | 2228922 | Arndt | 12 | 2000 | 2.9x1.9x1.2 | 0.3 | 10.95 | 9.95 | 8.95 | 7.95 |
| 2224016 | ReliaPro | 5 | 3000 | 3.3x1.7x1.3 | 0.2 | 13.95 | 12.95 | 11.95 | 10.95 | 1950497 | ReliaPro | 12 | 2000 | 2.9x2.1x1.3 | 0.4 | 15.95 | 14.49 | 12.95 | 11.49 |
| 2145078 | Arndt | 6 | 500 | 2.5x1.7x1.1 | 0.3 | 6.95 | 5.95 | 4.95 | 4.49 | 2229845 | Arndt | 12 | 3500 | 3.3x2.7x1.1 | 0.5 | 12.95 | 11.95 | 10.95 | 9.95 |
| 2230133 | ReliaPro | 6 | 500 | 2.3x1.6x1.1 | 0.3 | 8.95 | 7.95 | 6.95 | 6.25 | 252904 | ReliaPro | 15 | 1000 | 2.9x1.3x2.2 | 0.3 | 12.95 | 11.95 | 10.95 | 9.95 |
| 1940678 | Mean Well | 7.5 | 800 | 2.6x1.3x1.9 | 0.2 | 9.49 | 8.49 | 7.95 | 7.25 | 2229941 | ReliaPro | 24 | 500 | 2.9x2.2x0.3 | 0.3 | 11.95 | 10.95 | 9.95 | 8.95 |
| 252753 | ReliaPro | 9 | 500 | 2.5x1.1x1.7 | 0.2 | 10.95 | 9.95 | 8.95 | 7.95 | 2076341 | ReliaPro | 24 | 630 | 2.9x1.3x2.2 | 0.3 | 11.95 | 10.95 | 9.95 | 8.95 |
| 1940686 | Mean Well | 9 | 660 | 2.6x1.3x1.9 | 0.2 | 9.49 | 8.49 | 7.95 | 7.25 | 2208972 | ReliaPro | 24 | 1000 | 3.5x1.7x1.3 | 0.3 | 12.95 | 11.49 | 10.95 | 9.95 |

Level VI efficiency

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



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AC-to-DC Regulated Wall Adapters

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Energy Star Worldwide Interchangeable AC-to-DC Regulated Switching Wall Adapters

Meets US and European Energy Star compliance. Approved for European high-efficiency power applications.

- Field changeable AC plug clips (**sold separately, unless noted**)
- Regulated output • Double insulated
- Input voltage: 90-264VAC @ 47-63Hz • Power-on LED
- Output connector: **2.1mm x 5.5mm female center positive;** (except where noted, see footnotes **, #, ✓, ## below)
- Load regulation: ±5% • Class B EMI • 6' black cord
- Applications: wireless communications, portable equipment, digital camera, peripherals and networking

NEW
MARKED IN PINK



229181

Shown w/o AC Plug Clip
AC Plug Clips Not Included

| USA | European (EU) | UK | Australia (AUS) |
|--------|---------------|--------|-----------------|
| 229155 | 229163 | 229171 | 2081422 |

Phihong & Mean Well AC Plug Clips (below)

| Part No. | Manufacturer | Product No. | Output Volt. (VDC) | Current (A) | Power (W) | Ripple (mVp-p) | Line Regulation | Efficiency (%) | Dimensions (L" x W" x H") | Pricing | | |
|----------|---------------------|------------------|--------------------|-------------|-----------|----------------|-----------------|----------------|---------------------------|---------|--------|--------|
| | | | | | | | | | | 1 | 10 | 50 |
| 228785 | Phihong | PSA11R-033 | 3.3 | 2.0 | 6 | 50 | ±5% | 70 | 3.3 x 1.8 x 1.3 | \$8.95 | \$7.95 | \$6.95 |
| 2202888 | Phihong | PSA21R-033 | 3.3 | 3.0 | 10 | 50 | ±1% | 70 | 3.9 x 2.3 x 1.2 | 8.95 | 7.95 | 6.95 |
| 2202829 | Phihong | PSA08R-050-1.3** | 5 | 1.0 | 5 | 50 | ±1% | 70 | 2.8 x 1.8 x 1.0 | 8.95 | 7.95 | 6.95 |
| 2202790 | Cincon | TR10R050-1* | 5 | 1.6 | 8 | 50 | ±1% | 65 | 2.8 x 1.7 x 1.3 | 6.95 | 6.25 | 5.95 |
| 2197812 | Cincon | TR10R050 ✓* | 5 | 1.6 | 8 | 50 | ±1% | 65 | 2.8 x 1.7 x 1.3 | 7.95 | 6.95 | 6.25 |
| 2158240 | Phihong | PSM11R-050 ## | 5 | 2.0 | 10 | 100 | ±5% | 70 | 2.8 x 1.7 x 1.2 | 6.95 | 5.95 | 4.95 |
| 2230045 | Phihong | PSC12R-090 | 9 | 1.11 | 10 | 180 | ±5% | 80 | 2.7 x 1.7 x 1.1 | 9.95 | 8.95 | 7.95 |
| 2202896 | Phihong | PSA21R-090 | 9 | 1.67 | 15 | 90 | ±1% | 70 | 3.9 x 2.3 x 1.2 | 9.95 | 8.95 | 7.95 |
| 2082311 | Mean Well | GE18I09-P1J | 9 | 2.0 | 18 | 100 | ±5% | 75 | 3.2 x 1.7 x 1.6 | 12.49 | 11.49 | 10.49 |
| 2138951 | Phihong | PSA11R-120 | 12 | 0.83 | 10 | 120 | ±1% | 65 | 2.8 x 1.8 x 1.2 | 8.95 | 7.95 | 6.95 |
| 2227831 | Phihong | PLA12R-120† | 12 | 1.0 | 12 | 120 | ±5% | 70 | 2.7 x 2.0 x 1.2 | 10.95 | 9.95 | 8.95 |
| 2258689 | Phihong | PSAC12R-120-R†† | 12 | 1.0 | 12 | 120 | ±5% | 80 | 2.8 x 1.9 x 1.2 | 15.95 | 14.49 | 12.95 |
| 2154986 | Arndt | FW75550/12* | 12 | 1.25 | 15 | 150 | ±5% | 80 | 3.5 x 2.0 x 1.3 | 10.95 | 9.95 | 8.95 |
| 2210693 | Asian Power Devices | WA-18H12§ | 12 | 1.5 | 18 | 120 | ±2% | 80 | 3.0 x 1.9 x 1.4 | 9.95 | 8.95 | 7.95 |
| 2229239 | ENG | 3A-181WP12# | 12 | 1.5 | 18 | 120 | ±2% | 80 | 2.8 x 1.7 x 1.2 | 11.95 | 10.95 | 9.95 |
| 228849 | Phihong | PSA21R-120 | 12 | 1.67 | 20 | 120 | ±1% | 70 | 3.9 x 2.3 x 1.2 | 12.95 | 11.49 | 10.95 |
| 2261061 | Phihong | PSAA20R-120L6†† | 12 | 1.67 | 20 | 120 | ±5% | 85 | 2.8 x 2.0 x 1.3 | 18.95 | 16.95 | 15.49 |
| 2227532 | DVE | DSA-24CA-12* | 12 | 2.0 | 24 | 120 | ±2% | 80 | 3.0 x 1.9 x 1.6 | 14.95 | 13.49 | 11.95 |
| 228822 | Phihong | PSA11R-150 | 15 | .67 | 10 | 150 | ±5% | 70 | 3.4 x 2.0 x 1.3 | 9.95 | 8.95 | 7.95 |
| 2082345 | Mean Well | GE12I24-P1J | 24 | 0.63 | 15 | 240 | ±3% | 80 | 2.8 x 1.6 x 1.5 | 9.49 | 8.49 | 7.49 |

Input plugs: † Includes US AC plug clip only § Includes US and European plug clips *Kit includes US, UK, EU, AUS plugs †† Level 6 efficiency

Output connectors: ** 1.3mm x 3.5mm female plug # 2.5mm x 5.5mm female plug ✓ 2.5mm x 5.5mm right angle female plug ## Mini USB plug

Phihong AC Plug Clips (sold separately, required for above adapters)

| Part No. | Mfr. P/N | Description (see above for photos) | 1 | 10 | 50 | 100 |
|----------|----------|--|--------|--------|--------|--------|
| 229155 | RPA | US AC plug only | \$1.49 | \$1.35 | \$1.19 | \$1.09 |
| 229163 | RPE | European AC plug only | 1.49 | 1.35 | 1.19 | 1.09 |
| 229171 | RPK | United Kingdom AC plug only | 1.95 | 1.75 | 1.59 | 1.35 |
| 2081422 | RPS | Australia AC plug only | 1.95 | 1.75 | 1.59 | 1.35 |
| 229181 | RPKIT | Kit includes US, EU, UK & AU clips (4) | 4.95 | 4.49 | 3.95 | 3.49 |

Note: Phihong and Meanwell clips are not interchangeable

Mean Well AC Plug Clips (sold separately, required for above adapters)

| Part No. | Mfr. P/N | Description (see above for photos) | 1 | 10 | 50 | 100 |
|----------|-------------|--|--------|--------|--------|--------|
| 2082353 | AC-Plug-US | US AC plug only | \$1.25 | \$1.15 | \$0.99 | \$0.89 |
| 2082361 | AC-Plug-EU | European AC plug only | 1.49 | 1.35 | 1.19 | 1.09 |
| 2082370 | AC-Plug-UK | United Kingdom AC plug only | 1.49 | 1.35 | 1.19 | 1.09 |
| 2082388 | AC-Plug-AU | Australia AC plug only | 1.49 | 1.35 | 1.19 | 1.09 |
| 2082396 | AC-Plug-MIX | Kit includes US, EU, UK & AU clips (4) | 4.59 | 4.19 | 3.79 | 3.39 |

JAMECO ReliaPro AC-to-DC Regulated Linear Wall Adapters

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We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call for details.



1953639

Female



*Web Code: WAZ

| | | | | |
|--------------|-----------|---|---------|-------------------|
| ♦ Polarity 1 | + | — | — | (center negative) |
| Polarity 2 | — | — | + | (center positive) |
| | Female(F) | | Male(M) | |

| Part No. | Manufacturer | Product No. | Output Rating | | Output Connector ID x OD mm Female/Male; Polarity ♦ | Input VAC @ Hz | Size (H" x W" x D") | Case Color | Output Cord Length | Wt. (lbs.) | Agency Approvals | Pricing | | | |
|----------|--------------|------------------|---------------|--------------|---|----------------|---------------------|------------|--------------------|------------|------------------|---------|--------|--------|--------|
| | | | Voltage (VDC) | Current (mA) | | | | | | | | 1 | 10 | 50 | 100 |
| 1953612 | ReliaPro | DDU050100 | 5 | 1000 | 2.1mm x 5.5mm F 2 | 120 @ 60 | 3.2 x 2.2 x 1.8 | Black | 6' | 1.2 | UL/CUL | \$10.95 | \$9.95 | \$8.95 | \$7.95 |
| 168605 | ReliaPro | DBU0501000 | 5 | 1000 | 2.5mm x 5.5mm F 2 | 120 @ 60 | 3.3 x 2.2 x 1.9 | Black | 6' | 1.2 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 190512 | ReliaPro | DBU60020-H3570 | 6 | 200 | 2.1mm x 5.5mm F 2 | 120 @ 60 | 2.2 x 1.7 x 1.5 | Black | 6' | 0.4 | UL/CUL | 6.95 | 6.25 | 5.95 | 5.49 |
| 2229458 | Arndt | D41-06-500-2.1 | 6 | 500 | 2.1mm x 5.5mm F 2 | 120 @ 60 | 2.6 x 2.0 x 1.5 | Black | 6' | 0.6 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 1953639 | ReliaPro | DCU09050 | 9 | 500 | 2.1mm x 5.5mm F 2 | 120 @ 60 | 2.4 x 2.0 x 1.6 | Black | 6' | 0.9 | UL/CUL | 10.95 | 10.49 | 9.95 | 8.95 |
| 1953647 | ReliaPro | GPU410900500W000 | 9 | 500 | 2.5mm x 5.5mm F 2 | 120 @ 60 | 3.0 x 2.0 x 1.6 | Black | 6' | 0.9 | UL/CUL | 10.95 | 10.49 | 9.95 | 8.95 |
| 2227428 | Arndt | MT12-Y090100-A1 | 9 | 1000 | 2.5mm x 5.5mm F 2 | 120 @ 60 | 2.6 x 1.5 x 1.3 | Black | 6' | 0.2 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 220898 | ReliaPro | DCU120020 | 12 | 200 | 2.1mm x 5.5mm F 1 | 120 @ 60 | 2.5 x 2.0 x 1.7 | Black | 6' | 0.5 | UL/CUL | 8.95 | 7.95 | 6.95 | 6.25 |
| 162996 | ReliaPro | DDU120050 | 12 | 500 | 2.1mm x 5.5mm F 2 | 120 @ 60 | 3.2 x 2.2 x 1.9 | Black | 6' | 0.9 | UL/CUL | 11.95 | 10.95 | 9.95 | 8.95 |
| 170245 | ReliaPro | RDU120100 | 12 | 1000 | 2.1mm x 5.5mm F 2 | 120 @ 60 | 3.2 x 2.3 x 2.0 | Black | 6' | 1.2 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.95 |
| 1953663 | ReliaPro | DCU1201000 | 12 | 1000 | 2.5mm x 5.5mm F 2 | 120 @ 60 | 3.3 x 2.3 x 2.0 | Black | 6' | 1.2 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.95 |
| 2227410 | Arndt | MT18-9120150-A1* | 12 | 1500 | 2.1mm x 5.5mm F 2 | 120 @ 60 | 2.6 x 1.8 x 1.2 | Black | 6' | 0.2 | UL/CUL | 13.95 | 12.49 | 10.95 | 9.95 |
| 174861 | ReliaPro | DFU240050 | 24 | 500 | 2.1mm x 5.5mm F 2 | 120 @ 60 | 3.4 x 2.7 x 2.2 | Black | 6' | 1.3 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.95 |
| 174879 | ReliaPro | DCU090025 | 24 | 500 | 2.5mm x 5.5mm F 2 | 120 @ 60 | 3.4 x 2.7 x 2.2 | Black | 6' | 1.3 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.95 |

* Slimline

More AC-to-DC Wall Adapters listed on pages 89-91 & 93-94

AC-to-DC Unregulated Linear Wall Adapters

JAMECO ReliaPro

AC-to-DC Unregulated Linear Wall Adapters

NEW
MARKED IN PINK

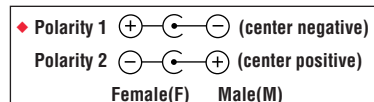


*Web Code: UAP

Input: 120VAC @ 60Hz

Call for Additional OEM pricing.

We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call for details.



2099921

| Part No. | Manufacturer | Product No. | Output Rating | | Output Connector ID x OD mm Female/Male; Polarity ◆ | Size (H" x W" x D") | Case Color | Output Cord Length | Wt. (lbs.) | Agency Approvals | Pricing | | | |
|----------|--------------|-------------------|------------------|-----------------|---|------------------------|---------------|--------------------------|---------------|---------------------|---------|--------|--------|--------|
| | | | Voltage (VDC) | Current (mA) | | | | | | | 1 | 10 | 50 | 100 |
| 2179745 | DVE | DV-6100-3508 | 6 | 100 | 2.1mm x 5.5mm F 1 | 2.4 x 1.5 x 1.0 | Black | 6' | 0.3 | UL/CUL | \$2.95 | \$2.59 | \$2.29 | \$1.95 |
| 2099551 | Fuhue | UE-3560300D | 6 | 300 | 2.5mm x 5.5mm F 2 | 2.2 x 1.7 x 1.5 | Black | 6' | 0.4 | UL/CUL | 5.95 | 5.49 | 4.95 | 4.49 |
| 101266 | ReliaPro | DBU060050E3860 | 6 | 500 | 2.1mm x 5.5mm F 2 | 2.4 x 1.9 x 1.6 | Black | 6' | 0.4 | UL/CUL | 6.95 | 6.25 | 5.59 | 4.95 |
| 147707 | ReliaPro | DBU060080C6962 | 6 | 800 | 2.1mm x 5.5mm F 2 | 2.3 x 2.0 x 1.6 | Black | 6' | 0.6 | UL/CUL | 8.95 | 7.95 | 6.95 | 5.95 |
| 1953719 | ReliaPro | DCU060100 | 6 | 1000 | 2.1mm x 5.5mm F 2 | 2.5 x 2.0 x 1.6 | Black | 6' | 0.6 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 220943 | ReliaPro | DCU060120G2401 | 6 | 1200 | 2.1mm x 5.5mm F 1 | 2.5 x 2.0 x 1.7 | Black | 6' | 0.7 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 2229271 | OEM | AD0780 | 7.5 | 800 | 2.5mm x 5.5mm F 2 | 2.3 x 2.3 x 1.8 | Black | 6' | 0.8 | UL/CSA | 8.95 | 7.95 | 6.95 | 6.25 |
| 2215460 | Fujitsu | MA14L-2001-0012 | 9 | 200 | 1.3mm x 3.5mm right angle F 2 | 2.4 x 1.7 x 1.5 | Black | 6' | 0.4 | UL/CSA | 4.95 | 3.95 | 3.49 | 2.95 |
| 100845 | ReliaPro | DBU090020E0850 | 9 | 200 | 2.1mm x 5.5mm F 2 | 2.1 x 1.7 x 1.5 | Black | 6' | 0.4 | UL/CUL | 6.95 | 5.95 | 5.49 | 4.59 |
| 133891 | ReliaPro | DBU090030C112 | 9 | 300 | 2.1mm x 5.5mm F 2 | 2.0 x 1.5 x 1.5 | Black | 6' | 0.4 | UL/CUL | 6.95 | 5.95 | 5.49 | 4.95 |
| 2230432 | Arndt | 35-9-300C | 9 | 300 | 2.5mm x 5.5mm F 2 | 2.2 x 1.7 x 1.5 | Black | 6' | 0.4 | UL/CUL | 5.95 | 5.49 | 4.49 | 3.95 |
| 189238 | ReliaPro | DBU090030H4540 | 9 | 300 | 2.5mm x 5.5mm F 2 | 2.2 x 1.7 x 1.5 | Black | 6' | 0.4 | UL/CUL | 6.95 | 5.95 | 4.95 | 4.49 |
| 163628 | ReliaPro | DCU090050Z7484 | 9 | 500 | 2.1mm x 5.5mm F 1 | 2.5 x 1.9 x 1.7 | Black | 6' | 0.6 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 100853 | ReliaPro | DCU090050E2961 | 9 | 500 | 2.1mm x 5.5mm F 2 | 2.5 x 1.9 x 1.7 | Black | 6' | 0.6 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 236937 | ReliaPro | DCU090050G6440 | 9 | 500 | 2.5mm x 5.5mm right angle F 2 | 2.5 x 2.0 x 1.7 | Black | 6' | 0.4 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 15561 | ReliaPro | DCU090050A2011 | 9 | 500 | 3.5mm M 2 | 2.5 x 2.0 x 1.6 | Black | 6' | 0.5 | UL/CSA | 7.95 | 6.95 | 6.25 | 5.49 |
| 220180 | ReliaPro | DCU090060F2091 | 9 | 600 | 2.1mm x 5.5mm F 2 | 3.3 x 2.9 x 2.3 | Black | 6' | 0.6 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 100175 | ReliaPro | DCU090060Z6652 | 9 | 600 | 2.5mm x 5.5mm F 2 | 2.7 x 2.0 x 1.7 | Black | 6' | 0.6 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 164929 | ReliaPro | DDU090100C2550 | 9 | 1000 | 2.1mm x 5.5mm F 1 | 2.7 x 2.3 x 1.8 | Black | 6' | 0.9 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 364576 | ReliaPro | DDU090100J0490 | 9 | 1000 | 2.1mm x 5.5mm F 2 | 2.9 x 2.3 x 1.9 | Black | 6' | 0.9 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 2099921 | ENG Electric | T48-9-1000D4* | 9 | 1000 | 2.5mm x 5.5mm F 1 (UK plug) | 3.2 x 2.3 x 1.9 | Black | 6' | 0.9 | CE/TUV | 2.95 | 2.59 | 2.29 | 1.95 |
| 2229280 | OEM | AD091AL | 9 | 1000 | 2.5mm x 5.5mm F 2 | 2.9 x 2.1 x 1.9 | Black | 6' | 0.9 | UL/CUL | 8.95 | 7.95 | 6.95 | 6.25 |
| 127505 | ReliaPro | DDU090100 | 9 | 1000 | 2.5mm x 5.5mm F 2 | 2.6 x 2.4 x 2.0 | Black | 6' | 0.9 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 100095 | ReliaPro | DBU120020 | 12 | 200 | 2.1mm x 5.5mm F 2 | 2.1 x 1.8 x 1.5 | Black | 6' | 0.4 | UL/CUL | 5.95 | 5.49 | 4.95 | 4.49 |
| 158043 | ReliaPro | DBU120020E2261 | 12 | 200 | 2.1mm x 5.5mm right angle F 2 | 2.2 x 1.7 x 1.5 | Black | 6' | 0.4 | UL/CUL | 5.95 | 5.49 | 4.95 | 4.49 |
| 2167226 | Arndt | 4292A | 12 | 200 | 2.5mm x 5.5mm F 2 | 2.3 x 2.1 x 1.6 | Black | 6' | 0.5 | UL/CSA | 4.95 | 4.49 | 3.95 | 3.59 |
| 127976 | ReliaPro | DCU120030D7161 | 12 | 300 | 2.1mm x 5.5mm F 2 | 2.6 x 1.8 x 1.6 | Black | 6' | 0.7 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 2227743 | Arndt | MW41-1230\$ | 12 | 300 | 2.1mm x 5.5mm F 1/F 2 | 2.6 x 1.8 x 1.6 | Black | 6' | 0.6 | UL/CUL | 8.95 | 7.95 | 6.95 | 6.25 |
| 2230301 | Arndt | RAD-1200400C | 12 | 400 | 2.1mm x 5.5mm F 2 | 2.9 x 1.9 x 1.6 | Black | 6' | 0.7 | UL/CUL | 5.95 | 4.95 | 4.49 | 3.95 |
| 114825 | ReliaPro | DCU120050D4740 | 12 | 500 | Stripped & tinned | 2.5 x 2.0 x 1.7 | Black | 6' | 0.6 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 15368 | ReliaPro | DCU120050Z8698 | 12 | 500 | 2.1mm x 5.5mm F 1 | 2.5 x 1.9 x 1.6 | Black | 6' | 0.6 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 2227840 | DVE | DV-1250 | 12 | 500 | 2.1mm x 5.5mm F 2 | 2.3 x 1.9 x 1.6 | Black | 6' | 0.6 | UL/CSA | 6.95 | 5.95 | 5.49 | 4.95 |
| 2227858 | Arndt | L4D-120050R | 12 | 500 | 2.1mm x 5.5mm F 2 | 2.3 x 1.9 x 1.6 | Black | 6' | 0.6 | UL/CUL | 6.95 | 5.95 | 5.49 | 4.95 |
| 2228893 | CUI | DPD120050-P5 | 12 | 500 | 2.1mm x 5.5mm F 2 | 2.3 x 1.9 x 1.6 | Black | 6' | 0.6 | UL/CSA | 6.95 | 5.95 | 5.49 | 4.95 |
| 2229781 | CUI | 91-54909 | 12 | 500 | 2.1mm x 5.5mm F 2 | 2.5 x 2.0 x 1.6 | Black | 6' | 0.6 | UL/CUL | 6.95 | 6.25 | 5.95 | 4.95 |
| 102496 | ReliaPro | DCU120050E8601 | 12 | 500 | 2.1mm x 5.5mm F 2 | 2.5 x 1.9 x 1.6 | Black | 6' | 0.6 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 102277 | ReliaPro | DCU120050UE2631 | 12 | 500 | 2.5mm x 5.5mm F 2 | 2.5 x 2.1 x 1.7 | Black | 6' | 0.6 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.49 |
| 2258371 | Arndt | MT20-21120-A00F | 12 | 750 | 2.5mm x 5.5mm F 2 | 2.7 x 1.7 x 1.2 | Black | 6' | 0.2 | UL/CUL | 5.95 | 5.49 | 4.95 | 4.49 |
| 2188473 | Motorola | MT20-21120-A04F | 12 | 750 | 2.5mm x 5.5mm F 2 | 2.7 x 1.7 x 1.2 | Black | 6' | 0.2 | UL/CUL/CEC | 7.49 | 6.95 | 6.25 | 5.49 |
| 117479 | ReliaPro | DDU120080E6451 | 12 | 800 | 2.1mm x 5.5mm F 2 | 3.0 x 2.3 x 2.0 | Black | 6' | 0.9 | UL/CUL | 8.95 | 7.95 | 6.95 | 6.25 |
| 2217799 | Arndt | AD-1280G† | 12 | 800 | 2.5mm x 5.5mm F 2 (medical grade) | 3.2 x 2.2 x 1.9 | Black | 12' | 1.3 | UL/CUL | 4.95 | 4.49 | 3.95 | 3.59 |
| 2158160 | Arndt | GPU481200800WD00 | 12 | 800 | 2.5mm x 5.5mm F 2 | 2.9 x 2.3 x 1.9 | Black | 6' | 1.0 | UL/CUL | 6.95 | 5.95 | 5.49 | 4.95 |
| 129331 | ReliaPro | DDU120080F2412 | 12 | 800 | 2.5mm x 5.5mm F 2 | 3.0 x 2.3 x 2.0 | Black | 6' | 0.9 | UL/CUL | 8.95 | 7.95 | 6.95 | 6.25 |
| 121232 | ReliaPro | DDU120080F2271 | 12 | 800 | 3.5mm M 2 | 2.6 x 2.4 x 2.0 | Black | 6' | 0.9 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 2202917 | Nite Rider | D12-10-1000 | 12 | 1000 | 2.1mm x 5.5mm F 2 | 3.3 x 2.4 x 2.0 | Black | 6' | 1.0 | UL/CUL | 5.95 | 5.49 | 4.95 | 4.49 |
| 2215742 | Arndt | T012LF1209** | 12 | 1000 | 2.1mm x 5.5mm F 2 | 3.0 x 1.6 x 1.4 | Black | 6' | 0.2 | UL/CUL/CEC | 7.95 | 6.95 | 5.95 | 5.49 |
| 2215734 | Arndt | MT12-Y120100-A1** | 12 | 1000 | 2.1mm x 5.5mm F 2 | 2.7 x 1.5 x 1.3 | Black | 6' | 0.2 | UL/CUL/CEC | 7.95 | 6.95 | 5.95 | 5.49 |
| 2197484 | ReliaPro | DDU120100 | 12 | 1000 | 2.1mm x 5.5mm F 2 | 2.6 x 2.3 x 1.9 | Black | 6' | 0.9 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.95 |
| 100870 | ReliaPro | DDU120100Z7974 | 12 | 1000 | 2.1mm x 5.5mm F 2 | 2.9 x 2.3 x 1.9 | Black | 6' | 0.9 | UL/CUL | 9.95 | 8.95 | 7.95 | 7.29 |
| 2211135 | Fellows | A-48-628(R2) | 12 | 1000 | 2.5mm x 5.5mm right angle F 2 | 3.1 x 2.2 x 1.9 | Black | 6' | 1.1 | UL/CUL | 5.95 | 5.49 | 4.95 | 4.49 |
| 2179770 | Westell | MT12-4120100-A1** | 12 | 1000 | 2.5mm x 5.5mm F 2 | 2.9 x 1.6 x 1.2 | Black | 6' | 0.2 | UL/CEC | 7.95 | 6.95 | 6.25 | 5.59 |
| 105478 | ReliaPro | DDU120100Z2993 | 12 | 1000 | 2.5mm x 5.5mm F 2 | 3.1 x 2.4 x 2.0 | Black | 6' | 1.0 | UL/CUL | 9.95 | 8.95 | 7.95 | 7.29 |
| 15392 | ReliaPro | DDU120100E7302 | 12 | 1000 | 3.5mm M 2 | 3.3 x 2.4 x 2.0 | Black | 6' | 1.0 | UL/CUL | 9.95 | 8.95 | 7.95 | 7.29 |
| 196779 | ReliaPro | DDU120120G0031 | 12 | 1200 | 2.5mm x 5.5mm F 2 | 3.0 x 2.3 x 1.9 | Black | 6' | 1.0 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 2192747 | ReliaPro | MW48-1201250 | 12 | 1250 | 2.1mm x 5.5mm F 2 | 3.0 x 2.3 x 1.9 | Black | 6' | 1.4 | UL/CUL | 6.95 | 6.25 | 5.59 | 4.95 |
| 203036 | ReliaPro | DDU120150H4530 | 12 | 1500 | 2.1mm x 5.5mm F 1 | 3.3 x 2.2 x 1.9 | Black | 6' | 1.5 | UL/CUL | 12.95 | 11.49 | 9.95 | 8.95 |

* 240VAC 50Hz ** Slimline † 3 prong ground \$ Reversible polarity (±) CEC

More AC-to-DC Wall Adapters listed on pages 89-92 & 94

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
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AC-to-DC Wall Adapters & Table-Top Power Supplies

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

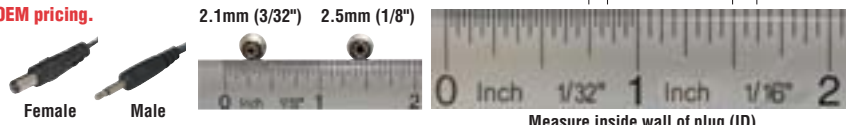
JAMECO ReliaPro AC-to-DC Unregulated Linear Wall Adapters (Continued)

2.1mm (3/32") 2.5mm (2/16") 1/8"

★ Web Code: UAP

Input: 120VAC @ 60Hz Call for Additional OEM pricing.

♦ Polarity 1 (+) (-) (center negative)
Polarity 2 (-) (+) (center positive)
Female(F) Male(M)



| Part No. | Manufacturer | Product No. | Output Rating | | Output Connector ID x OD mm Female/Male; Polarity ♦ | Size (H" x W" x D") | Case Color | Output Cord Length | Wt. (lbs.) | Agency Approvals | Pricing | | | |
|----------|--------------|-----------------|----------------------------|--------------|--|---------------------|------------|--------------------|------------|------------------|---------|--------|--------|--------|
| | | | Voltage (VDC) | Current (mA) | | | | | | | 1 | 10 | 50 | 100 |
| 2218118 | Netgear | AD661F** | 12 | 1500 | 2.1mm x 5.5mm F 2 | 3.0 x 2.0 x 1.4 | Black | 6' | 0.3 | UL/CUL/CEC | \$10.95 | \$9.95 | \$8.95 | \$7.95 |
| 136881 | ReliaPro | DDU120150K1960 | 12 | 1500 | 2.1mm x 5.5mm F 2 | 3.4 x 2.7 x 2.2 | Black | 6' | 1.5 | UL/CUL | 12.95 | 11.49 | 9.95 | 8.95 |
| 101291 | ReliaPro | DDU120150 | 12 | 1500 | 2.5mm x 5.5mm F 2 | 3.4 x 2.7 x 2.2 | Black | 6' | 1.5 | UL/CUL | 12.95 | 11.49 | 9.95 | 8.95 |
| 2218003 | ReliaPro | DFU120200R | 12 | 2000 | 2.1mm x 5.5mm F 2 | 3.4 x 2.7 x 2.2 | Black | 6' | 1.5 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.95 |
| 2224008 | ReliaPro | DFU120200R | 12 | 2000 | 2.5mm x 5.5mm F 2 | 3.4 x 2.7 x 2.2 | Black | 6' | 1.5 | UL/CUL | 14.95 | 13.49 | 11.95 | 10.95 |
| 308099 | ReliaPro | DDU135100H3210 | 13.5 | 1000 | 2.1mm x 5.5mm F 2 | 2.9 x 2.3 x 1.9 | Black | 6' | 1.0 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 123932 | ReliaPro | DDU140070Z7470 | 14 | 700 | 2.1mm x 5.5mm F 2 | 2.6 x 2.4 x 2.0 | Black | 6' | 1.0 | UL/CUL | 8.95 | 7.95 | 6.95 | 6.25 |
| 190001 | ReliaPro | DCU150050E3021 | 15 | 500 | 2.1mm x 5.5mm F 2 | 2.3 x 2.4 x 1.9 | Black | 6' | 0.8 | UL/CUL | 7.95 | 6.95 | 6.25 | 5.95 |
| 189982 | ReliaPro | DCU150050E3031 | 15 | 500 | 2.5mm x 5.5mm F 2 | 2.3 x 2.4 x 1.9 | Black | 6' | 0.8 | UL/CUL | 8.95 | 7.95 | 7.29 | 6.49 |
| 191652 | ReliaPro | DDU150100D7051 | 15 | 1000 | 2.1mm x 5.5mm F 2 | 3.3 x 2.2 x 1.9 | Black | 6' | 1.0 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 2081713 | DVE | DV-1790 | 17 | 900 | 2.5mm x 5.5mm F 2 | 3.2 x 2.2 x 2.0 | Black | 6' | 1.2 | UL/CSA | 2.95 | 2.59 | 2.25 | 1.95 |
| 2205261 | ReliaPro | DDU180100H4550 | 18 | 1000 | 2.1mm x 5.5mm F 2 | 3.3 x 2.2 x 1.9 | Black | 6' | 1.4 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 206958 | ReliaPro | DDU180100H4551 | 18 | 1000 | 2.5mm x 5.5mm F 2 | 3.3 x 2.2 x 1.9 | Black | 6' | 1.4 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 2228017 | Arndt | WP572018DG† | 18 | 1100 | 2.1mm x 5.5mm F 2 | 3.4 x 2.7 x 2.2 | Black | 6' | 1.4 | UL/CUL | 9.95 | 8.95 | 7.95 | 6.95 |
| 102285 | ReliaPro | DDU240040Z7860 | 24 | 400 | 2.1mm x 5.5mm F 2 | 3.0 x 2.3 x 2.0 | Black | 6' | 0.9 | UL/CUL | 8.95 | 7.95 | 7.29 | 6.49 |
| 2192510 | ReliaPro | DDU240050RS1160 | 24 | 500 | 2.1mm x 5.5mm F 2 | 2.9 x 2.3 x 1.9 | Black | 6' | 1.0 | UL/CUL | 8.95 | 7.95 | 6.95 | 6.25 |
| 191556 | ReliaPro | DDU240050E5852 | 24 | 500 | 2.5mm x 5.5mm F 2 | 3.1 x 2.3 x 1.9 | Black | 6' | 1.0 | UL/CUL | 9.95 | 8.95 | 7.95 | 7.29 |
| 139088 | ReliaPro | DDU240050E9160 | 24 | 500 | 3.5mm M 2 | 3.1 x 2.3 x 1.9 | Black | 6' | 1.0 | UL/CUL | 8.95 | 7.95 | 6.95 | 5.95 |
| 168495 | ReliaPro | DFU240080J3180 | 24 | 800 | 2.1mm x 5.5mm F 2 | 2.9 x 1.9 x 1.6 | Black | 6' | 0.4 | UL/CUL/TUV | 11.95 | 10.95 | 9.95 | 8.95 |
| 220960 | ReliaPro | DFU240100G2300 | 24 | 1000 | 2.1mm x 5.5mm F 1 | 3.4 x 2.7 x 2.2 | Black | 6' | 1.6 | UL/CUL | 12.95 | 11.95 | 10.95 | 9.95 |
| 199523 | ReliaPro | DDU300050E9340 | 30 | 500 | 2.5mm x 5.5mm F 2 | 2.9 x 2.3 x 1.9 | Black | 6' | 1.1 | UL/CUL | 10.95 | 9.95 | 8.95 | 7.95 |
| 2167621 | Seven Star | SS104* | 1.5, 3, 4.5, 6, 7.5, 9, 12 | 500 | 0.7x2.3, 1.5x4, 2.1x5, 2.5x5.5 Female 2.5, 3.5 Male (LED indicator) | 3.3 x 2.0 x 1.9 | Black | 6' | 0.8 | — | 4.95 | 3.95 | 3.49 | 2.95 |
| 123158 | ReliaPro | 900-100* | 1.5, 3, 4.5, 6, 7.5, 9, 12 | 1000 | 1.3x3.5, 2.1x5, 2.5x5.5 Female 2.5, 3.5 Male, 9V battery snap (LED ind.) | 3.7 x 2.2 x 2.5 | Black | 6' | 0.9 | — | 11.95 | 10.95 | 9.95 | 8.95 |

*110/220VAC input voltage **Slimline †3 prong ground

GlobTek® AC-to-DC Medical Table-Top Regulated Switching Power Supplies

★ Web Code: WBM

- 2.5mm x 5.5mm female center positive
- Input voltage: 90-264VAC @ 47-63Hz
- Leakage current: 0.1mA max.
- Regulation (line & load): ±5%
- Isolation voltage: 4,000VAC • 3-wire AC input
- Ripple & noise: 1% or 100mV, whichever is smaller
- Cord lengths: DC: 6'; AC: not included use P/N 132011, pg 102
- Size: 2.9"L x 2.0"W x 1.6"H



| Part No. | Mfr. Part No. | Power (W) | Output VDC/Amps | Pricing | | |
|----------|---------------|-----------|-----------------|---------|---------|--------|
| | | | | 1 | 10 | 50 |
| 2179606 | TR9CB2500LCP | 15.0 | +6/2.5 | \$12.95 | \$11.49 | \$9.95 |
| 230683 | TR9CE1250CP | 15.0 | +12/1.25 | 34.95 | 29.95 | 24.95 |
| 230798 | TR9CI2100LCP | 50.4 | +24/2.1 | 59.95 | 53.95 | 47.95 |

★ Interchangeable Power Supplies, Adapters and Tips — Enter Web Code NBH

Accessory Power Input Cords for Table-Top Power Supplies

★ Web Code: UBF



| Part No. | Ref. No. * | Description | Color | AWG | Certification | Cord Length | Wt. (lbs.) | Cord Type | 1 | 10 | 50 | 100 |
|----------|------------|--|-------|------|---------------|-------------|------------|-----------|--------|--------|--------|--------|
| 189587 | 1 | 2-conductor power cord (Figure 8 style) | Black | 18/2 | UL/CSA | 6' | 0.3 | SPT | \$2.95 | \$2.69 | \$2.39 | \$2.19 |
| 38050 | 2 | 3-conductor power cord | Black | 18/3 | UL/CSA | 6' | 0.4 | SVT | 4.95 | 4.49 | 3.95 | 3.59 |
| 1953559 | 3 | 3-conductor flat power cord (Mickey Mouse™ style)** | Black | 18/3 | UL/CSA | 6' | 0.4 | SPT-2 | 2.95 | 2.59 | 2.29 | 1.95 |
| 1951123 | 3 | 3-conductor round power cord (Mickey Mouse™ style)** | Black | 18/3 | UL/CSA | 6' | 0.4 | SVT | 2.95 | 2.59 | 2.29 | 1.95 |

*These reference numbers for "AC cord needed" for Table-Top Power Supplies on pages 95-96

**Ref #3 chose flat or round cable

More Power Cords on page 102

REGULATED SWITCHING WALL ADAPTERS — BEST SELLERS

| Part No. | Description | Page | Price |
|----------|-------------|------|--------|
| 2188537 | 5V @ 2.0A | 90 | \$6.95 |
| 2224155 | 12V @ 0.75A | 90 | 6.95 |
| 2208999 | 12V @ 1.0A | 91 | 11.95 |
| 2173116 | 12V @ 3.0A | 91 | 13.49 |
| 380191 | 18V @ 1.38A | 91 | 12.49 |
| 2229941 | 24V @ 0.5A | 91 | 11.95 |
| 2208972 | 24V @ 1.0A | 91 | 12.95 |



UNREGULATED AC-to-AC WALL ADAPTERS — BEST SELLERS

| Part No. | Description | Page | Price |
|----------|-------------|------|--------|
| 100061 | 9V @ 0.5A | 89 | \$8.95 |
| 102234 | 9V @ 1.0A | 89 | 9.95 |
| 112336 | 9V @ 1.5A | 89 | 10.95 |
| 10081 | 12V @ 1.0A | 89 | 9.95 |
| 2167576 | 12V @ 1.2A | 89 | 6.95 |
| 2224008 | 12V @ 2.0A | 94 | 14.95 |
| 87581 | 24V @ 0.5A | 89 | 9.95 |
| 2100195 | 24V @ 1.5A | 89 | 14.95 |



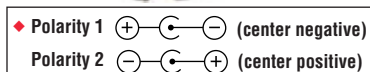
AC-to-DC Switching Table-Top Power Supplies

Jameco carries the full line of Mean Well Power products. For additional products visit www.Jameco.com/meanwellproducts



AC-to-DC Unregulated Linear & Regulated Switching Table-Top Power Supplies

We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call for details.



Female (F) Male (M) DIN (M) Stripped



See page 101 for International Power Cords

| Part No. | Manufacturer | Product No. | Output Volts (VDC)/ Current (A) | Output Connector ID x OD/F = female; M = male; Polarity ⚡ | Input VAC@Hz | Output Power (W) | LED Ind. | Size (L" x W" x H") | Cords* (DC/AC) | Wt. (lbs.) | Agency Approvals | Pricing | |
|---|-----------------|--------------------|---|---|-----------------|------------------------|-------------|------------------------|-------------------|---------------|---------------------|------------------------|---------|
| | | | | | | | | | | | | 1 | 10 |
| 2-Wire AC Input – Unregulated Linear Table-Top | | | | | | | | | | | | * Web Code: TBE | |
| 140880 | ReliaPro | DC1215ST | +12/1.5 | Stripped & Tinned | 120@60 | 18 | No | 3.1 x 2.1 x 1.9 | 6'/6" | 1.5 | UL | \$12.95 | \$11.49 |
| 143722 | ReliaPro | DC1220F5 | +12/2.0 | 2.5mm x 5.5mm F 2 | 120@60 | 24 | No | 3.8 x 2.8 x 2.3 | 6'/6" | 2.2 | UL/CUL | 15.95 | 14.49 |
| 2197898 | Arndt | MKD66123400 | +12/3.4 | 5-pin DIN M | 120@60 | 40 | No | 5.1 x 3.6 x 2.6 | 6'/6" | 3.0 | UL/CUL | 9.95 | 8.95 |
| 2099569 | Arndt | 57-1607-U4D | +16/0.7 | 2.5mm x 5.5mm F 2 | 120@60 | 19 | No | 3.6 x 2.7 x 3.6 | 6'/6" | 1.3 | UL | 4.95 | 4.49 |
| 139096 | ReliaPro | EHU240120 | +24/1.2 | 2.1mm x 5.5mm F 2 | 120@60 | 29 | No | 4.4 x 3.1 x 2.6 | 6'/6" | 2.5 | — | 13.95 | 12.95 |
| 2197572 | ReliaPro | EHU240200 | +24/2.0 | 2.1mm x 5.5mm F 2 | 120@60 | 48 | No | 4.4 x 3.1 x 2.6 | 6'/6" | 2.5 | — | 14.95 | 13.49 |
| 2-Wire AC Input – Regulated Switching Table-Top – Single Output | | | | | | | | | | | | * Web Code: ITZ | |
| 2179577 | Delta | ADP-12GB | +5/2.5 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 12 | No | 3.4 x 2.2 x 1.2 | 6'/6" | 0.5 | UL/CUL | \$5.95 | \$5.39 |
| 2258355 | Mean Well | GS18B05-P1J | +5/3.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 15 | Yes | 3.1 x 2.1 x 1.3 | 4'/1" | 0.5 | UL/CUL/TUV/CE | 7.95 | 6.95 |
| 2203821 | Arndt | AD8048 | +5/4.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 20 | No | 4.7 x 2.3 x 1.2 | 6'/6" | 0.8 | UL/CUL | 10.95 | 9.95 |
| 2202870 | Arndt | EADP-20NB | +5/4.0 | 2.1mm x 5.5mm F 2 | 100-120@50-60 | 20 | No | 4.4 x 2.1 x 1.3 | 6'/4" | 0.7 | UL/CUL/CEC | 9.95 | 8.95 |
| 2203848 | Arndt | G32DD-050400-A | +5/4.0 | 2.1mm x 5.5mm F 2 | 100-120@50-60 | 20 | No | 4.0 x 2.2 x 1.3 | 6'/6" | 0.8 | UL/CUL | 11.95 | 10.95 |
| 2202626 | Arndt | PS-2.1-5-4DAC† | +5/4.0 | 2.1mm x 5.5mm F 2 | 100-120@50-60 | 20 | No | 4.4 x 2.1 x 1.3 | 6'/6" | 0.7 | UL/CUL/CEC | 9.95 | 8.95 |
| 2188570 | Arndt | MPGS-U0241202000D2 | +12/2.0 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 24 | No | 4.2 x 1.7 x 1.2 | 6'/6" | 0.5 | UL/CUL/FCC | 12.95 | 11.95 |
| 2227381 | Delta | EADP-24MB | +12/2.0 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 24 | No | 4.5 x 1.9 x 1.2 | 6'/1" | 0.4 | UL/CUL | 10.95 | 9.95 |
| 2224075 | Arndt | HK-HA-U12-LH† | +12/2.5 | 2.1mm x 5.5mm F 2 | 100-120@50-60 | 30 | Yes | 4.3 x 1.7 x 1.2 | 6'/6" | 0.8 | UL/CUL/CEC | 12.95 | 11.49 |
| 2230168 | Arndt | EADP-36FB | +12/3.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 36 | No | 5.3 x 2.4 x 1.4 | 3'/1" | 0.6 | UL/CUL | 13.95 | 12.49 |
| 2227401 | Arndt | ADA017 | +12/3.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 36 | No | 5.1 x 2.2 x 1.2 | 6'/1" | 0.6 | UL/CUL | 12.95 | 11.49 |
| 2167445 | ReliaPro | ADPV16 | +12/3.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 36 | No | 3.6 x 1.6 x 1.1 | 5'/1" | 0.4 | UL/CUL/CE/CSA | 16.95 | 15.49 |
| 2214230 | Mean Well 🟢 | GSM60B12-PIJ | +12/5.0 | 2.1mm x 5.5mm F 2 | 80-264@47-63 | 60 | Yes | 4.9 x 2.0 x 1.2 | 3'/1" | 0.7 | UL/CUL/TUV/CE | 20.49 | 17.95 |
| 2205456 | Arndt | AD7212A | +12/5.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 60 | Yes | 4.2 x 2.4 x 1.2 | 7'/1" | 0.7 | UL/CUL/TUV/CE | 15.95 | 14.49 |
| 1940547 | Mean Well 🟢 | GS25B24-P1J | +24/1.04 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 25 | Yes | 3.1 x 2.1 x 1.3 | 6'/1" | 0.5 | UL/CUL/TUV/CE | 12.49 | 11.49 |
| 1707139 | Mean Well 🟢 | ES25B48-P1J | +48/0.52 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 25 | Yes | 3.1 x 2.1 x 1.3 | 6'/1" | 0.4 | UL/CUL/TUV/CE | 10.95 | 9.95 |
| * 3-9V Web Code: TTF | | | 3-Wire AC Input – Regulated Switching Table-Top – Single Output | | | | | | | | | * 12-14V Web Code: TTW | |
| 196218 | GlobTek | GT-21089-1305T3 | +5/2.0 | 2.1mm x 5.5mm F 2 | 120-240@50-60 | 10 | No | 3.4 x 1.9 x 1.3 | 6'/2" | 0.4 | UL/CUL/TUV/CE | \$17.95 | \$15.95 |
| 2227815 | GlobTek | TR9CA2000LLP-Y-D** | +5/2.6 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 13 | No | 3.4 x 1.8 x 1.2 | 6'/2" | 0.5 | UL/CUL/CE | 12.95 | 11.95 |
| 1940387 | Mean Well 🟢 | GS18A05-P1J | +5/3.0 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 15 | Yes | 3.7 x 2.1 x 1.4 | 4'/2" | 0.5 | UL/CUL/TUV/CE | 11.95 | 10.95 |
| 1940571 | Mean Well 🟢 | GS25A05-P1J | +5/4.0 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 20 | Yes | 3.7 x 2.1 x 1.4 | 4'/2" | 0.5 | UL/CUL/TUV/CE | 12.49 | 11.49 |
| 2227807 | Sceptre Power | PS5050AP-LO5 | +5/5.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 25 | Yes | 4.1 x 2.6 x 1.4 | 6'/6" | 1.1 | UL/CUL/CE | 15.95 | 14.49 |
| 1952337 | Mean Well 🟢 | GS40A05-P1J | +5/5.0 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 25 | Yes | 4.9 x 2.0 x 1.2 | 4'/2" | 0.7 | UL/CUL/TUV/CE | 16.95 | 15.49 |
| 2224059 | Sparkle Power | AD025DGA1-J25 | +5/5.0 | 2.5mm x 5.5mm F 2 | 90-264@47-63 | 25 | Yes | 4.3 x 2.0 x 1.2 | 4'/2" | 0.7 | UL/CUL/TUV/CE | 14.95 | 13.49 |
| 2144956 | ReliaPro | GQ65-060330-EI | +6/3.3 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 20 | No | 3.6 x 2.0 x 1.3 | 6'/3" | 0.3 | UL/TUV/CE | 12.95 | 11.49 |
| 2173036 | Phihong | PSA18U-090 | +9/2.0 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 18 | No | 3.9 x 2.2 x 1.2 | 5'/2" | 0.5 | UL/CUL/TUV/CE | 9.95 | 8.95 |
| 1940408 | Mean Well 🟢 | GS18A09-P1J | +9/2.0 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 18 | Yes | 3.7 x 2.1 x 1.4 | 6'/2" | 0.6 | UL/CUL/TUV/CE | 11.95 | 10.95 |
| 1202916 | Mean Well | GS40A09-P1J | +9/4.5 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 40 | Yes | 4.9 x 2.0 x 1.2 | 3.3'/2" | 0.6 | UL/CUL/TUV/CE | 16.95 | 15.49 |
| 1952361 | Mean Well 🟢 | GS60A09-P1J | +9/6.0 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 54 | Yes | 4.9 x 2.0 x 1.3 | 4'/2" | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.95 |
| 1954244 | Mean Well 🟢 | GS15A-3P1J | +12/1.25 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 15 | No | 3.9 x 2.3 x 1.3 | 6'/2" | 0.4 | UL/CUL/TUV/CE | 14.75 | 13.25 |
| 2227823 | GlobTek | TR9CE1250-LCP-7 | +12/1.25 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 15 | No | 3.4 x 1.8 x 1.2 | 6'/2" | 0.5 | UL/CUL/CE | 15.95 | 14.49 |
| 2229491 | DVE | DSA-0151D-12-2.1 | +12/1.5 | 2.1mm x 5.5mm F 2 | 100-125@50-60 | 18 | No | 3.9 x 1.9 x 1.3 | 6'/2" | 0.4 | UL/CSA/TUV/CE | 11.95 | 10.95 |
| 2229482 | DVE | DSA-0151D-12-2.5 | +12/1.5 | 2.5mm x 5.5mm F 2 | 100-125@50-60 | 18 | No | 3.9 x 1.9 x 1.3 | 6'/2" | 0.4 | UL/CSA/TUV/CE | 11.95 | 10.95 |
| 1940416 | Mean Well 🟢 | GS18A12-P1JU | +12/1.5 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 18 | Yes | 3.7 x 2.1 x 1.4 | 6'/6" | 0.5 | UL/CUL/TUV/CE | 14.49 | 12.95 |
| 1940601 | Mean Well 🟢 | GS25A12-P1JU | +12/2.08 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 25 | Yes | 3.7 x 2.1 x 1.4 | 4'/6" | 0.5 | UL/CUL/TUV/CE | 14.49 | 12.95 |
| 2197927 | ReliaPro 🟢 | DZ036DL120300G | +12/3.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 36 | No | 4.3 x 1.9 x 1.3 | 6'/2" | 0.5 | UL/CUL/CE | 13.95 | 12.49 |
| 2230521 | Arndt | UP0351E-12P | +12/3.0 | 2.5mm x 5.5mm F 2 | 100-240@47-63 | 36 | Yes | 4.6 x 2.3 x 1.3 | 2'/2" | 0.5 | UL/CUL/TUV/CE | 12.95 | 11.95 |
| 2229378 | Sparkle Power # | FSP040-RHAN2 | +12/3.33 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 40 | Yes | 4.3 x 2.0 x 1.2 | 6'/2" | 0.5 | UL/CUL/TUV/CE | 15.95 | 14.49 |
| 2230387 | Arndt | LSE0107A1240 | +12/3.33 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 40 | Yes | 4.5 x 2.0 x 1.2 | 4'/2" | 0.5 | UL/CUL/TUV/CE | 14.95 | 13.49 |
| 2224307 | Mean Well # | GST40A12-P1J | +12/3.34 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 40 | Yes | 4.9 x 1.2 x 2.0 | 3.3'/2" | 0.6 | UL/CUL/TUV/CE | 15.25 | 13.95 |
| 1952345 | Mean Well 🟢 | GS40A12-P1J | +12/3.34 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 40 | Yes | 4.9 x 2.0 x 1.3 | 4'/2" | 0.7 | UL/CUL/TUV/CE | 16.95 | 15.49 |
| 2079357 | Mean Well 🟢 | GS40A12-P1M | +12/3.34 | 2.5mm x 5.5mm F 2 | 90-264@47-63 | 40 | Yes | 4.9 x 2.0 x 1.3 | 4'/2" | 0.7 | UL/CUL/TUV/CE | 16.95 | 15.49 |

* See accessory table-top power cord chart on page 94 when AC cord needed; refer to 1, 2 or 3 in "Cords (DC/AC)" column above for correct power cord

† Attached cord

* Locking connector

CEC # Level VI efficiency

Continued on next page

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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AC-to-DC Regulated Switching Table-Top Power Supplies

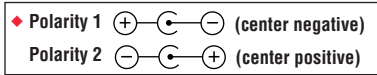
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|---------------------|--------------|-------------|
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AC-to-DC Regulated Switching Table-Top Power Supplies

See page 101 for International Power Cords

We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call for details.



| Part No. | Manufacturer | Product No. | Output Volts (VDC)/ Current (A) | Output Connector ID x OD/F = female; M = male; Polarity ⬡ | Input VAC@Hz | Output Power (W) | LED Ind. | Size (L" x W" x H") | Cords * (DC/AC) | Wt. (lbs.) | Agency Approvals | Pricing | |
|--|-----------------|------------------|---------------------------------------|---|----------------------|--|-------------|------------------------|--------------------|---------------|---------------------|------------------------|---------|
| | | | | | | | | | | | | 1 | 10 |
| * 12-14V Web Code: TTW | | | * 15-24V Web Code: TTR | | | 3-Wire AC Input – Regulated Switching Table-Top – Double & Triple Output | | | | | | * 27-54V Web Code: TTT | |
| 2208956 | ReliaPro ⬢ | KPL-060F | +12/5.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 60 | Yes | 4.5 x 2.0 x 1.2 | 4'/2 | 0.9 | UL/CUL/TUV/CE | \$15.95 | \$14.49 |
| 1952370 | Mean Well ⬢ | GS60A12-P1J | +12/5.0 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 60 | Yes | 4.9 x 1.9 x 1.2 | 4'/2 | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.95 |
| 2224382 | Mean Well | GST60A12-P1J# | +12/5.0 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 60 | Yes | 4.9 x 2.0 x 1.2 | 3.3'/2 | 0.7 | †† (See below) | 16.95 | 14.49 |
| 2218151 | Net Gear ⬢ | AD8180LF | +12/5.0 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 60 | No | 4.6 x 2.4 x 1.4 | 6'/2 | 0.6 | UL/CUL/CE | 16.95 | 15.49 |
| 2099420 | Sparkle Power ⬢ | AD060DBAEI-J25R | +12/5.0 | 2.5mm x 5.5mm F 2† | 100-240@50-60 | 60 | Yes | 4.3 x 2.4 x 1.2 | 5'/2 | 0.5 | UL/CUL/TUV/CE | 22.95 | 20.49 |
| 2230230 | Arndt | RX-SP-5012-6 | +12/6.0 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 72 | Yes | 4.7 x 2.3 x 1.4 | 4'/4 | 0.6 | CE/FCC | 17.95 | 15.95 |
| 2078291 | Mean Well ⬢ | GS90A12-P1M | +12/6.67 | 2.5mm x 5.5mm F 2 | 90-264@47-63 | 80 | Yes | 5.7 x 2.3 x 1.3 | 4'/2 | 0.9 | UL/CUL/TUV/CE | 28.95 | 24.95 |
| 2223460 | Mean Well | GST90A12-P1M# | +12/6.67 | 2.5mm x 5.5mm F 2 | 90-264@47-63 | 80 | Yes | 5.7 x 2.4 x 1.3 | 3.3'/2 | 1.4 | †† (See below) | 26.95 | 23.95 |
| 2129211 | Mean Well ⬢ | GS120A12-R7B | +12/8.5 | 4-pin DIN M | 85-264@47-63 | 102 | Yes | 6.6 x 2.6 x 1.4 | 4'/2 | 1.4 | UL/CUL/TUV/CE | 43.95 | 39.95 |
| 2229950 | EDAC Power | EA11011H(33)# | +12/10 | 4-pin DIN M | 100-240@50-60 | 120 | Yes | 5.4 x 2.3 x 1.3 | 4'/2 | 1.0 | UL/CUL/CE/CEC | 49.95 | 45.95 |
| 2099294 | Mean Well | GS220A12-R7B | +12/15 | 4-pin DIN M | 90-264/127-370@47-63 | 180 | Yes | 8.3 x 3.4 x 1.8 | 3.3'/2 | 1.0 | UL/CUL/TUV/CE | 74.95 | 67.95 |
| 1940619 | Mean Well ⬢ | GS25A15-P1J | +15/1.66 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 25 | Yes | 3.7 x 2.1 x 1.4 | 6'/2 | 0.5 | UL/CUL/TUV/CE | 12.49 | 11.49 |
| 221577 | Mean Well | GS40A15-P1J | +15/2.67 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 40 | Yes | 4.9 x 2.0 x 1.3 | 3.3'/2 | 0.8 | UL/CUL/TUV/CE | 15.95 | 14.49 |
| 2171559 | Mean Well | GS40A15-P1JU | +15/2.67 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 40 | Yes | 4.9 x 2.0 x 1.2 | 3.3'/6" | 0.6 | UL/CUL/TUV/CE | 16.95 | 15.49 |
| 1954295 | Mean Well | GS60A15-P1J | +15/4.0 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 60 | Yes | 4.9 x 2.0 x 1.2 | 4'/2 | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.95 |
| 2078320 | Mean Well ⬢ | GS90A15-P1M | +15/6.0 | 2.5mm x 5.5mm F 2 | 90-264@47-63 | 90 | Yes | 5.7 x 2.3 x 1.3 | 3.3'/2 | 0.8 | UL/CUL/TUV/CE | 28.95 | 24.95 |
| 2154951 | Mean Well | GS60A18-P1JU | +18/3.33 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 60 | Yes | 4.9 x 2.0 x 1.2 | 6'/6" | 0.8 | UL/CUL/TUV/CE | 18.95 | 16.95 |
| 1940635 | Mean Well ⬢ | GS25A24-P1JU | +24/1.04 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 25 | Yes | 3.7 x 2.1 x 1.4 | 6'/6" | 0.5 | UL/CUL/TUV/CE | 13.95 | 12.95 |
| 2197919 | ReliaPro ⬢ | DZ036DL240150G | +24/1.5 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 36 | No | 4.3 x 1.9 x 1.3 | 6'/2 | 0.5 | UL/CUL/CE | 11.95 | 10.95 |
| 1952353 | Mean Well ⬢ | GS40A24-P1J | +24/1.67 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 40 | Yes | 4.9 x 2.0 x 1.2 | 6'/2 | 0.7 | UL/CUL/TUV/CE | 16.95 | 15.49 |
| 2208948 | ReliaPro | KPL-060M | +24/2.5 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 60 | Yes | 4.5 x 2.0 x 1.2 | 4'/2 | 0.9 | UL/CUL/TUV/CE | 15.95 | 14.49 |
| 2229984 | ReliaPro | KPL-060M-2.1-VI# | +24/2.5 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 60 | Yes | 4.5 x 2.0 x 1.2 | 4'/2 | 0.9 | UL/CUL/TUV/CE | 15.95 | 14.49 |
| 1952214 | Mean Well ⬢ | GS60A24-P1J | +24/2.5 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 60 | Yes | 4.9 x 2.0 x 1.3 | 6'/2 | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.95 |
| 2224411 | Mean Well | GST60A24-P1J# | +24/2.5 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 60 | Yes | 4.9 x 1.2 x 2.0 | 6'/2 | 0.7 | UL/CUL/TUV/CE | 16.95 | 14.49 |
| 1950913 | ReliaPro ⬢ | KPL-060M | +24/2.5 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 60 | Yes | 4.8 x 2.4 x 1.4 | 4'/2 | 1.8 | UL/CUL/TUV/CE | 19.95 | 17.95 |
| 2229992 | ReliaPro | KPL-060M-2.5-VI# | +24/2.5 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 60 | Yes | 4.8 x 2.4 x 1.4 | 4'/2 | 0.9 | UL/CUL/TUV/CE | 19.95 | 17.95 |
| 2210491 | Mean Well | GSM90B24-P1M | +24/3.75 | 2.5mm x 5.5mm F 2 | 80-264@47-63 | 90 | Yes | 5.7 x 1.3 x 2.4 | 4'/1 | 1.0 | UL/CUL/TUV/CE | 28.95 | 24.49 |
| 2078338 | Mean Well ⬢ | GS90A24-P1M | +24/3.75 | 2.5mm x 5.5mm F 2 | 90-264@47-63 | 90 | Yes | 5.9 x 2.3 x 1.2 | 4'/2 | 0.9 | UL/CUL/TUV/CE | 28.95 | 24.95 |
| 2208892 | Mean Well | GS120A24-HQU\$ | +24/5.0 | 2.5mm x 5.5mm F 2 | 90-264@47-63 | 120 | Yes | 6.6 x 2.6 x 1.4 | 4'/2 | 1.4 | UL/CUL/TUV/CE | 32.95 | 29.95 |
| 2135208 | Mean Well | GS120A24-P1M | +24/5.0 | 2.5mm x 5.5mm F 2 | 85-264@47-63 | 120 | Yes | 6.6 x 2.6 x 1.4 | 4'/2 | 1.4 | UL/CUL/TUV/CE | 39.95 | 35.95 |
| 2122212 | Mean Well | GS160A24-R7B | +24/6.67 | 4-pin DIN M | 85-264@47-63 | 160 | Yes | 6.9 x 2.8 x 1.4 | 4'/2 | 1.5 | UL/CUL/TUV/CE | 51.95 | 45.95 |
| 2099286 | Mean Well | GS220A24-R7B | +24/9.2 | 4-pin DIN M | 90-264@47-63 | 220 | Yes | 8.3 x 3.4 x 1.8 | 3.3'/2 | 2.4 | UL/CUL/TUV/CE | 74.95 | 67.95 |
| 2202562 | Phihong | PSA18U-480 | +48/0.38 | 2.5mm x 5.5mm F 2† | 100-240@50-60 | 18 | No | 3.9 x 2.1 x 1.2 | 6'/2 | 0.5 | UL/CUL/CE | 4.95 | 4.49 |
| 2228931 | FSP | FSP025-1AD207A | +48/0.52 | 2.5mm x 5.5mm F 2 | 100-240@50-60 | 25 | No | 3.3 x 2.0 x 1.3 | 6'/2 | 0.4 | UL/CUL/CE | 11.95 | 10.95 |
| 1952396 | Mean Well ⬢ | GS60A48-P1JU | +48/1.25 | 2.1mm x 5.5mm F 2 | 90-264@47-63 | 60 | Yes | 4.9 x 2.0 x 1.2 | 6'/6" | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.95 |
| 2218100 | Netgear | VAN90C-480B | +48/1.45 | 2.1mm x 5.5mm F 2 | 100-240@50-60 | 70 | No | 5.9 x 2.4 x 1.2 | 6'/2 | 0.9 | UL/CUL/CE | 16.95 | 15.49 |
| 2122221 | Mean Well | GS160A48-R7B | +48/3.34 | 4-pin DIN M | 85-264@47-63 | 160 | Yes | 6.9 x 2.8 x 1.4 | 4'/2 | 0.9 | UL/TUV/BSMI/CCC | 51.95 | 45.95 |
| 3-Wire AC Input – Regulated Switching Table-Top – Double & Triple Output | | | | | | | | | | | | * Web Code: TTN | |
| 196270 | ReliaPro | PSU25A13 | +5/2.5, +12/1.0 | 4-pin mini DIN M | 100-240@47-63 | 25 | No | 4.2 x 2.6 x 1.4 | 6'/6" | 1.2 | UL/CUL/TUV/CE | \$34.95 | \$31.49 |
| 2230740 | ReliaPro | GPSN25A-13# | +5/2.5, +12/1.5 | 4-pin mini DIN M | 100-240@50-60 | 30 | No | 4.2 x 2.6 x 1.4 | 6'/6" | 1.2 | UL/CUL/TUV/CE | 34.95 | 31.49 |
| 2125501 | Sunny | SYS2062-3402 | +5/2.0, +12/2.0 | 4-pin mini DIN M | 100-240@50-60 | 34 | Yes | 4.7 x 2.4 x 1.5 | 3'/2 | 0.8 | UL/CUL/TUV/CE | 19.95 | 17.95 |
| 2229511 | Ault | SC200 | +5/4A, +12/1A | 5-pin DIN M | 100-240@50-60 | 32 | No | 5.0 x 3.0 x 1.6 | 6'/2 | 1.2 | UL/CSA/CE/TUV | 19.95 | 17.95 |
| 2229474 | Arndt | PPS35A2-DO | +5/2A+12/2A | 6-pin DIN M | 100-240@50-60 | 34 | Yes | 4.5 x 1.9 x 1.2 | 6'/4" | 0.6 | UL/CUL/TUV/CE | 17.95 | 15.95 |
| 221720 | Mean Well | P25A14E-R1BU | +5/2.5, +15/0.3 | 5-pin DIN M | 90-264@47-63 | 25 | Yes | 4.3 x 2.6 x 1.4 | 6'/6" | 0.8 | UL/CUL/TUV/CE | 29.95 | 26.95 |
| 190960 | Mean Well | P25A13D-R1B | +5/2.5, +12/0.8 | 5-pin DIN M | 90-264@47-63 | 26 | Yes | 4.1 x 2.6 x 1.4 | 6'/2 | 1.1 | CUL/TUV/CE | 29.95 | 26.95 |
| 237367 | Mean Well | P50A14E-R1B | +5/3.5, +15/1.2 | 5-pin DIN M | 90-264@47-63 | 42 | Yes | 5.8 x 3.0 x 1.7 | 4'/2 | 1.2 | UL/CUL/TUV/CE | 44.95 | 39.95 |
| 2217844 | Arndt | T40-9312A | +5/5.0, +12/1.2 | 6-pin DIN M | 90-264@47-63 | 43 | No | 6.0 x 3.3 x 1.9 | 4'/2 | 1.2 | UL/CUL/TUV/CE | 19.95 | 17.95 |
| 221702 | Mean Well | P50A13D-R1BU | +5/4.0, +12/2.0 | 5-pin DIN M | 90-264@47-63 | 50 | Yes | 5.7 x 3.0 x 1.7 | 4'/6" | 1.5 | UL/CUL/TUV/CE | 49.95 | 44.95 |
| 2250951 | Mean Well | GP50A13D-R1B# | +5/4.0, +12/2.0 | 5-pin DIN M | 90-264@47-63 | 50 | Yes | 5.7 x 3.0 x 1.7 | 4'/2 | 1.5 | UL/CUL/TUV/CE | 44.95 | 40.95 |

* See accessory table-top power cord chart on page 94 when AC cord needed; refer to 1, 2 or 3 in "Cords (DC/AC)" column above for correct power cord

† Right angle †† UL/CUL/TUV/BSMI/CCC/FCC/CE \$ HQU = C Tick Austria approval # Level VI efficiency ● CEC

Power Supplies, Wall Adapters & Power Cables

Velleman 10-Watt Switching Wall Adapter

- Output voltage: 3, 4.5, 6, 7.5, 9, 12VDC selectable
- Output connectors: 2.5mm and 3.5mm male, 1mm x 3mm, 1.35mm x 3.5mm, 1.7mm x 4mm, 2.1 x 5mm, 2.5mm x 5.5mm, 1.5mm x 5.5mm female
- Input voltage: 100-230VAC, 50/60Hz • Output current: 0.8 to 1.5A

| Part No. | Mfr. Part No. | Size (L x W x H) | 1 | 10 |
|----------|---------------|--------------------|---------|---------|
| 2137182 | PSSMV1USA | 2.6" x 1.1" x 2.9" | \$15.95 | \$14.49 |

Velleman 30-Watt Switching Table-Top Power Supply

- Output voltage: 5VDC to 12VDC in 1V increments
- Output connectors: 2.5mm & 3.5mm male, 1mm x 3mm, 1.35mm x 3.5mm, 1.5mm x 5mm, 1.7mm x 4mm, 2.1mm x 5mm & 2.5mm x 5mm female
- Stabilized outputs, low ripple & interference
- High efficiency, low energy consumption • Short-circuit, overload protection
- Input voltage: 100-240VAC @ 50/60Hz • LED power indicator

Includes: AC power cord

| Part No. | Mfr. Part No. | Output Current | Size (L x W x H) | 1 | 5 | 25 |
|----------|---------------|----------------|--------------------|---------|---------|---------|
| 2158354 | PSSE13U | 1.5A to 4A | 3.5" x 1.8" x 1.2" | \$39.95 | \$35.95 | \$31.95 |

me Regulated Desktop/Benchtop Power Supply

This is a high powered, regulated power supply that is perfect for hobbyists. Typical applications are model railroads, slot car racing, science projects and other applications requiring 12V @ 24A power source. Features output connections heavy duty binding posts and cigarette lighter plug with a 2.1 x 5.5mm female plug.

- Input voltage: 100VAC to 240VAC @ 50-60Hz
- Max. output voltage: 12V @ 24A • CUL/UL recognized

Includes: 6' IEC power cord, 6' coiled cigarette lighter plug cord with a 2.1mm x 5.5mm right angle female plug

| Part No. | Mfr. Part No. | Size (L x W x H) | Wt. (lbs.) | 1 | 5 | 25 |
|----------|---------------|-------------------|------------|---------|---------|---------|
| 2197599 | PS24B | 14.5" x 6" x 3.5" | 9.0 | \$54.95 | \$49.95 | \$46.95 |

BEST SELLING AC-to-DC MEDICAL TABLE-TOP POWER SUPPLIES

| Part No. | Power (W) | VDC / Amps | 1 | 10 |
|----------|-----------|------------|---------|---------|
| 2179606 | 15 | 6 / 2.5 | \$12.95 | \$11.49 |
| 230683 | 15.6 | 12 / 1.3 | \$34.95 | \$29.95 |



USB-A Power Cable w/ Interchangeable Tips

- 4' cable • 26 AWG
- USB-A male connector • UL/CSA approved
- Tips: 1.3mm x 5.5mm, 1.7mm x 4.0mm, 1.7mm x 4.8mm, 2.1mm x 5.5mm, 2.5mm x 5.5mm, 2.9mm x 6.3mm female 3.2mm x 5.0mm and 4.3mm x 6.0mm male
- For use with P/N 2138636 wall adapters (below)



| Part No. | Cross Ref. No. | 1 | 10 | 50 | 100 |
|----------|----------------|--------|--------|--------|--------|
| 2081625 | USBAC8 | \$5.95 | \$5.39 | \$4.79 | \$4.29 |



5VDC @ 200mA Wall USB Adapter

- Works with digital camera, cell phones, PDA, MP3 and other USB devices • LED indicator
- TUV/FCC approved • Output voltage: 5VDC @ 200mA
- Input volt.: 100-240VAC @ 50/60Hz
- Size: 2.5"H x 1.5"W x 0.8"D • Cable and tips use P/N 2081625 (above)



| Part No. | Mfr. Part No. | 1 | 10 | 50 | 100 |
|----------|-------------------|--------|--------|--------|--------|
| 2138636 | SW013US-0500020US | \$2.95 | \$2.59 | \$2.25 | \$1.95 |

5VDC @ 1 & 2A USB Wall Adapters

- Works with digital camera, cell phones, PDA, MP3 and other USB devices
- Input voltage: 100-240VAC @ 50/60Hz
- Flip up prongs
- UL FCC approved
- Cable and tips use P/N 2081625 (see Web)



| Part No. | Mfr. Part No. | Output Curr. | Size (H" x W" x D") | 1 | 10 | 50 | 100 |
|----------|---------------|--------------|---------------------|--------|--------|--------|--------|
| 2210888 | 1128 | 1A | 2.6 x 1.3 x 1.5 | \$3.95 | \$3.49 | \$2.95 | \$2.59 |
| 2227786 | XA1005-2U | 2A | 2.7 x 1.7 x 1.0 | 4.95 | 4.49 | 3.95 | 3.59 |



1A & 2.1A In-Car USB Charger/Adapter

- Input voltage: 12VDC to 24VDC
- Output voltage: 2158320: 5VDC @ 1A; 2228391: Dual 2.1A & 1A
- Output connector: USB type A
- Compatible with iPhone, iPod, Samsung



| Part No. | Cross Ref. No. | Size (L" x D1" x D2") | Voltage | 1 | 10 | 50 |
|----------|----------------|-----------------------|-------------|--------|--------|--------|
| 2158320 | CC001-BLK | 2.1 x 0.9 x 0.8 | 1A | \$3.95 | \$3.59 | \$3.25 |
| 2228391 | CAR-D2A | 2.23 x 1.26 x 0.8 | 2.1/1A dual | 5.95 | 5.39 | 4.79 |



DC Cords with Pigtail – 6' length

- 18-24 AWG • Color: black

| Part No. | Cross Ref. No. | Fig. | AWG | Type | ID x OD x L (mm) | 1 | 10 | 100 |
|----------|----------------|------|-----|------|------------------|--------|--------|--------|
| 2229731 | DC-168 | 1 | 18 | Plug | 2.1 x 5.5 x 12 | \$2.59 | \$2.35 | \$2.15 |
| 2229706 | DC-169 | 1 | 18 | Plug | 2.5 x 5.5 x 12 | 2.59 | 2.35 | 2.15 |
| 2229722 | DC-173 | 2 | 18 | Jack | 2.1 x 5.5 x 12 | 2.59 | 2.35 | 2.15 |
| 2229714 | DC-175 | 2 | 18 | Jack | 2.5 x 5.5 x 12 | 2.95 | 2.59 | 2.29 |
| 2096763 | DCCORD2.1 | 1 | 24 | Plug | 2.1 x 5.5 x 12 | 1.95 | 1.75 | 1.59 |
| 2096771 | DCCORD2.5 | 1 | 24 | Plug | 2.5 x 5.5 x 12 | 1.95 | 1.75 | 1.59 |
| 2114600 | 6FT#245.5X2.1 | 2 | 24 | Jack | 2.1 x 5.5 x 12 | 1.95 | 1.75 | 1.59 |
| 2114597 | 6FT#245.5X2.5 | 2 | 24 | Jack | 2.5 x 5.5 x 12 | 1.95 | 1.75 | 1.59 |



* Web Code: MFP



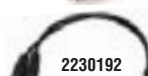
DC Extension and Splitter (Y) Power Cables

- 18 AWG • Color: black

| Part No. | Mfr. | Cross Ref. No. | Description (Barrel) | Cable Lgth | 1 | 10 | 100 |
|----------|----------|------------------|----------------------|------------|--------|--------|--------|
| 2099147 | ValuePro | DCEXTCORD2.1-3FT | 2.1 F x 2.1 M | 3' | \$2.49 | \$2.25 | \$1.95 |
| 2099121 | ValuePro | DCEXTCORD2.1-6FT | 2.1 F x 2.1 M | 6' | 2.95 | 2.59 | 2.25 |
| 2099155 | ValuePro | DCEXTCORD2.5-3FT | 2.5 F x 2.5 M | 3' | 2.49 | 2.25 | 1.95 |
| 2099139 | ValuePro | DCEXTCORD2.5-6FT | 2.5 F x 2.5 M | 6' | 2.95 | 2.59 | 2.25 |
| 2230192 | Arndt | EN-DCM-2 | 2.1M to (2) 2.1F | 9' | 3.95 | 3.59 | 2.95 |
| 2230205 | Arndt | 2505 | 2.1M to (5) 2.1F | 13' | 4.95 | 4.49 | 3.95 |
| 2230213 | Arndt | 2508 | 2.1M to (8) 2.1F | 16' | 6.95 | 6.25 | 5.59 |



2099147/
2099121



Automobile Fused Power Plugs with Cords

- Accepts .25" x 1.25" fuse
- 115002: Screw assembly with strain relief (no cord)
- 124760: 3' cord with pigtail
- 2229773: 3' cord with 2.1mm x 5.5mm connector



| Part No. | Fuse | 1 | 10 | 100 |
|----------|-----------|--------|--------|--------|
| 115002 | 5A/250VAC | \$2.25 | \$1.95 | \$1.75 |
| 124760 | 3A/250VAC | 2.49 | 2.25 | 1.95 |
| 2229773 | 2A/250VAC | 2.75 | 2.49 | 2.25 |



Power Cord Adapters

2188545: Receptacle IEC plug C14 to Nema 5-15R

2188553: Receptacle CEE 7/7 to Nema 5-15R plug



| Part No. | Cross Ref. No. | 1 | 10 | 50 |
|----------|----------------|--------|--------|--------|
| 2188545 | YL-3215 | \$3.95 | \$3.59 | \$3.29 |
| 2188553 | YL-2215 | 3.95 | 3.59 | 3.29 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Power Jacks, Plugs & Adapters

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



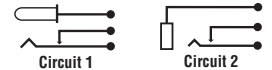
Switchcraft® Male & Female Power Jacks

*Web Code: BAM

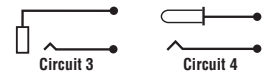
| Part No. | Mfr. | Product No. | Description Pin Dia. x OD | Dimensions H x W x D (mm) | Type/ Mount | Circuit/ Terminal | 1 | 10 | 100 |
|----------|-------------|-----------------------|---|------------------------------|----------------|----------------------|------|------|------|
| 101194 | ValuePro | PP024 | 1.3 x 3.5mm male | 6.0 x 6.0 x 9.0 | 1/D | 1/B | .99 | .85 | .69 |
| 2202909 | Arndt | 163-0310 | 1.7 x 4.8mm male | 41 x 10.3 Dia. | 6/F | 3/A | .79 | .69 | .59 |
| 101179 | ValuePro | PP014 | 2.1 x 5.5mm male | 10.9 x 9.0 x 14.3 | 2/D | 1/A | .59 | .55 | .49 |
| 101178 | ValuePro | PP014G✓ | 2.1 x 5.5mm male | 10.9 x 9.0 x 14.3 | 2/E | 1/A | .69 | .59 | .45 |
| 137673 | ValuePro | PP013 | 2.1 x 5.5mm male | 10.9 x 9.0 x 14.5 | 3/D | 4/A | .65 | .55 | .39 |
| 151590 | ValuePro | DPJ-02IA | 2.1 x 5.5mm male | 18.0 x 12.6 Dia. | 4/C† | 1/A | 1.49 | 1.25 | .99 |
| 151555 | ValuePro | JX16183 ² | 2.1 x 5.5mm male | 21.0 x 8.0 Dia. | 5/C | 1/A | 1.75 | 1.59 | 1.39 |
| 2230096 | Arndt | PJ-DC2.1* | 2.1 x 5.5mm male | 20.0 x 9.2 x 11.6 | 16/C | 1/A | 1.39 | 1.25 | 1.09 |
| 281851 | Switchcraft | 722A ² | 2.1 x 5.5mm male | 21.0 x 8.0 Dia. | 7/C | 1/A | 3.95 | 3.59 | 3.29 |
| 2228594 | ValuePro | PJ1010A | 2.1 x 5.5mm male | 39.9 x 10.5 Dia. | 6/E | 3/A | 1.75 | 1.49 | 1.25 |
| 159611 | ValuePro | PJ1014A | 2.1 x 5.5mm male | 57.5 x 12.6 Dia. | 6/F | 3/A | 1.95 | 1.75 | 1.59 |
| 2151136 | ValuePro | HD2388C | 2.1 x 5.5mm male | 12.4 x 7.7 Dia. | 8/C* | 3/A | 1.75 | 1.59 | 1.39 |
| 2144690 | ValuePro | L5225 | 2.1 x 5.5mm male | 11.0 x 9.1 x 14.7 | 11/B | 1/B | .79 | .65 | .49 |
| 2227209 | Velleman | CD021-1** | 2.1 x 5.5mm male | 13 x 14.5 x 40 | 15/E | 4/C | 1.95 | 1.75 | 1.59 |
| 2153908 | Velleman | CD021-5#** | 2.1 x 5.5mm male | 13 x 14.5 x 40 | 15/E | 4/C | 7.95 | 6.95 | 6.25 |
| 2210677 | ValuePro | WTJ-020-37A | 2.1 x 5.5mm male | 14.5 x 9 x 10.7 | 2/D | 1/A | .69 | .59 | .45 |
| 2168114 | Adam Tech | ADC-002A-1 | 2.5 x 5.5mm male | 11.0 x 9.0 x 14.3 | 2/D | 1/A | .59 | .55 | .49 |
| 207714 | ValuePro | HEC0470 | 2.5 x 5.5mm male | 11.0 x 9.0 x 14.5 | 2/D | 1/B | .69 | .65 | .55 |
| 101187 | ValuePro | PP014A | 2.5 x 5.5mm male | 11.0 x 9.0 x 14.5 | 2/D | 1/A | .69 | .65 | .55 |
| 151563 | ValuePro | DPJ-026A ² | 2.5 x 5.5mm male | 15.1 x 8.0 Dia. | 5/C | 1/A | 1.95 | 1.75 | 1.49 |
| 159506 | ValuePro | PJ1015A | 2.5 x 5.5mm male | 57.5 x 12.6 Dia. | 6/F | 3/A | 1.95 | 1.75 | 1.49 |
| 202358 | ValuePro | HD2388 | 2.5 x 5.5mm male | 12.4 x 7.7 Dia. | 8/C* | 3/A | 1.19 | .99 | .89 |
| 281842 | Switchcraft | 712A ² | 2.5 x 5.5mm male | 15.8 x 7.5 Dia. | 7/C | 1/A | 3.95 | 3.59 | 3.29 |
| 2144745 | Arndt | J25M | 2.5 x 5.5mm male | 11.1 x 8.9 x 13.4 | 12/D | 1/B | .69 | .65 | .55 |
| 2227217 | ValuePro | CD017-1** | 2.5 x 5.5mm male | 13 x 14.5 x 40 | 15/E | 4/C | 1.95 | 1.75 | 1.59 |
| 2153887 | ValuePro | CD017-5#** | 2.5 x 5.5mm male | 13 x 14.5 x 40 | 15/E | 4/C | 7.95 | 6.95 | 6.25 |
| 2168122 | Adam Tech | ADC-002A-2 | 2.5 x 5.5mm male | 11.0 x 9.0 x 14.3 | 2/D | 1/A | .69 | .65 | .55 |
| 1773996 | Switchcraft | MDPC2ARA | 2.5mm female | 7.9 x 8.7 x 12.7 | 13/D | 4/B | 2.49 | 2.25 | 1.95 |
| 297035 | Switchcraft | 142A | 3.5mm female | 11.1 x 9.5 x 15.8 | 14/C | 4/A | 2.95 | 2.59 | 2.29 |
| 101143 | ValuePro | PJ0352 ¹ | 3.5mm female | 10.0 x 10.0 x 18.5 | 9/C | 4/A | .89 | .79 | .69 |
| 165730 | ValuePro | PJ0354R ¹ | 3.5mm female | 15.5 x 5.9 Dia. | 10/C | 3/A | 1.95 | 1.75 | 1.49 |
| 2183218 | ValuePro | M6HDWR | Additional Panel Mounting Hardware indicated with 1 | | | | .69 | .59 | .49 |
| 281852 | Switchcraft | 5/16-32HDWR | Additional Panel Mounting Hardware indicated with 2 | | | | .69 | .59 | .49 |

† Center offset * Plastic ** Screw terminals #5 pack ✓ Panel mount groove

| Mounting | Code |
|-------------|------|
| Panel | C |
| PCB | D |
| Panel & PCB | E |
| Cable | F |



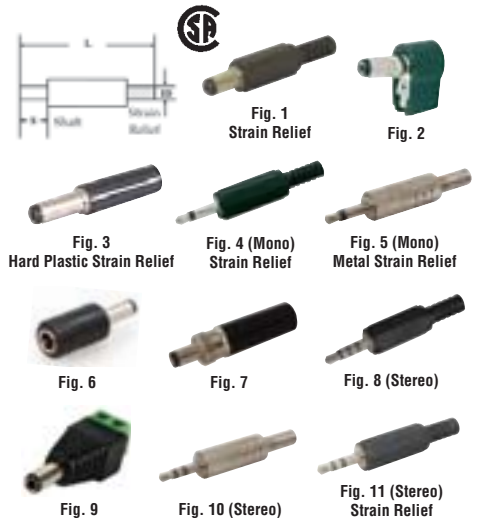
| Terminals | Code |
|---------------|------|
| Solder eyelet | A |
| PC board | B |
| Screw term | C |



Velleman® AC/DC Power Plugs & Adapters

*Web Code: MFP

| Part No. | Mfr. | Product No. | Fig. | Description (Barrel) Plug ID x OD x L (mm) | Strain Relief ID x L (mm) | 1 | 10 | 100 |
|----------|----------|---------------|------|---|------------------------------|------|------|------|
| 71192 | ValuePro | PP137 | 1 | F plug, 1.3 x 3.5 x 9.5 | 4.1 x 12 (black) | 1.09 | .95 | .79 |
| 191484 | ValuePro | PP049W | 1 | F plug, 2.1 x 5.5 x 9.0 | 4.6 x 12.5 (white) | 1.09 | .95 | .79 |
| 2004890 | ValuePro | PP049S | 1 | F plug, 2.1 x 5.5 x 9.5 | 4.5 x 12.5 (black) | 1.09 | .95 | .79 |
| 28760 | ValuePro | PP049 | 1 | F plug, 2.1 x 5.5 x 9.5 (P205) | 4.1 x 12 (black) | 1.09 | .95 | .79 |
| 2201990 | ValuePro | CS1021A | 3 | F plug, 2.1 x 5.5 x 14 | 8.3 x 22 (black) | .99 | .89 | .79 |
| 2179358 | ValuePro | 27-1136A | 7 | F plug, 2.1 x 5.5 x 9.5 (locking) | 6.0 x 25 (black) | 2.95 | 2.49 | 1.95 |
| 2145123 | ValuePro | CS1021-A-12MM | 1 | F plug, 2.1 x 5.5 x 12 | 4.3 x 12 (black) | .89 | .79 | .69 |
| 2230344 | ValuePro | JR1814S | 1 | F plug, 2.1 x 5.5 x 14 | 4.6 x 12 (black) | .89 | .79 | .69 |
| 138587 | ValuePro | PL-007 | 2 | F plug, 2.1 x 5.5 x 12 (right angle) | 2.8 x 11 (black) | .89 | .79 | .65 |
| 2227225 | Velleman | CD022-1 | 9 | F plug, 2.1 x 5.5 x 11 (screw term) | — | 1.75 | 1.49 | 1.25 |
| 2153916 | Velleman | CD022-5 | 9 | F plug, 2.1 x 5.5 x 11 (screw term) | (5 pack) | 7.95 | 6.95 | 5.95 |
| 190538 | ValuePro | JR1813S | 1 | F plug, 2.5 x 5.5 x 9.5 | 4.7 x 13 (black) | .89 | .79 | .65 |
| 28768 | ValuePro | PP109 | 1 | F plug, 2.5 x 5.5 x 9.5 (P206) | 4.7 x 13 (black) | .89 | .79 | .65 |
| 2179366 | ValuePro | 27-1136B | 7 | F plug, 2.5 x 5.5 x 9.5 (locking) | 6.0 x 25 (black) | 2.95 | 2.49 | 1.95 |
| 2145115 | ValuePro | CS1021-B-12MM | 1 | F plug, 2.5 x 5.5 x 12 | 4.3 x 12 (black) | .89 | .79 | .69 |
| 168242 | ValuePro | PP109N | 3 | F plug, 2.5 x 5.5 x 14 | 8.3 x 22 (black) | .99 | .89 | .79 |
| 2099163 | ValuePro | PL-008 | 2 | F plug, 2.5 x 5.5 x 9.5 (right angle) | 2.8 x 11 (black) | .95 | .85 | .75 |
| 2227233 | Velleman | CD018-1 | 9 | F plug, 2.5 x 5.5 x 11 (screw term) | — | 1.75 | 1.49 | 1.25 |
| 2153895 | Velleman | CD018-5 | 9 | F plug, 2.5 x 5.5 x 11 (screw term) | (5 pack) | 7.95 | 6.95 | 5.95 |
| 101135 | ValuePro | JR-1020 | 4 | M plug, — x 2.5 x 11 (mono) | 4.3 x 13 (black) | .59 | .49 | .39 |
| 231176 | ValuePro | JR1012 | 11 | M plug, — x 3.5 x 14 (stereo) | 4.3 x 13.5 (black) | 1.19 | .99 | .85 |
| 231167 | ValuePro | JR1155BTS | 10 | M plug, — x 3.5 x 14 (stereo) | 4.4 x 19 (metal) | 1.75 | 1.49 | 1.25 |
| 231160 | ValuePro | PJ1035 | 5 | M plug, — x 3.5 x 14 (mono) | 4.8 x 13.5 (metal) | 1.49 | 1.25 | .99 |
| 101152 | ValuePro | PJ1035 | 4 | M plug, — x 3.5 x 14.5 (mono) | 4.0 x 13 (black) | .99 | .85 | .69 |
| 2200954 | ValuePro | JR1037 | 8 | M plug, — x 3.5 x 14.5 (stereo) | 4.5 x 12 (black) | 2.29 | 1.95 | 1.75 |
| 2112989 | ValuePro | JP1828C | 6 | Adapter, 2.1mm M to 1.3mm F (1.3"L) | — | 1.49 | 1.25 | 1.09 |
| 1953591 | ValuePro | JR1833 | 6 | Adapter, 2.1mm M to 2.5mm F (1.4"L) | — | 1.49 | 1.25 | 1.09 |
| 2228551 | ValuePro | DCJ2.5-DCP1.3 | 6 | Adapter, 2.5mm M to 1.3mm F (1.3"L) | — | 1.49 | 1.25 | 1.09 |
| 1953604 | ValuePro | JR1831 | 6 | Adapter, 2.5mm M to 2.1mm F (1.4"L) | — | 1.49 | 1.25 | 1.09 |

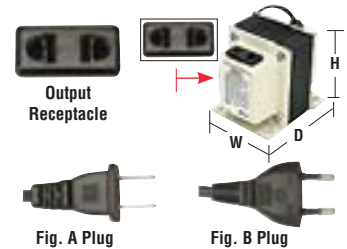


Call for Additional OEM pricing.

We are happy to change any listed wall adapter or table-top power plug to overmolding on a connector of your choice for \$4.00 each. A 100 piece minimum order applies. Please call for details.

International Step-Up & Step-Down Transformers * Web Code: RAL

| Part No. | Cross Ref. No. | Fig. | Type | Volt Step | Primary Voltage | Secondary Voltage | Watts (VA) | Dimensions | | | Wt. (lbs.) | Pricing | | |
|----------|----------------|------|-----------|-----------|-----------------|-------------------|------------|------------|------|------|------------|---------|---------|---------|
| | | | | | | | | H" | W" | D" | | 1 | 5 | 25 |
| 221331 | GIS-500 | A | Isolation | — | 120VAC | 120VAC | 500 | 4.69 | 3.75 | 6.00 | 16.0 | \$89.95 | \$79.95 | \$69.95 |
| 85016 | GPC1003 | B | Auto | Down | 220VAC | 120VAC | 300 | 3.50 | 3.05 | 3.95 | 4.8 | 49.95 | 44.95 | 39.95 |
| 111851 | GPC1005 | B | Auto | Down | 220VAC | 120VAC | 500 | 3.99 | 3.60 | 4.84 | 8.5 | 54.95 | 49.95 | 44.95 |



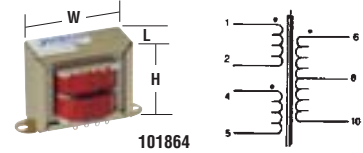
Quick-Connect Power Transformers

• Input voltage: 120/230VAC, 50-60Hz • Terminals: quick-connect, solder

* Web Code: BAN

| Part No. | Product No. | Triad Cross* | Input Voltage | Output Voltage | Watts (VA) | Size of Connect | Dimensions | | | Wt. (lbs.) | Pricing | | |
|----------|-------------|--------------|---------------|----------------|------------|-----------------|------------|------|------|------------|---------|--------|--------|
| | | | | | | | L" | W" | H" | | 1 | 5 | 25 |
| 101864 | XFR2424Q | FD724 | 120/230VAC | 24VCT @ 2.4A | 57.6 | 0.141" | 2.10 | 2.70 | 2.29 | 1.7 | \$10.95 | \$9.49 | \$8.95 |
| 104417 | XFR3615Q | FD736 | 120/230VAC | 36VCT @ 1.5A | 54.0 | 0.141" | 2.30 | 2.70 | 2.30 | 1.8 | 19.95 | 18.49 | 16.95 |

* Triad cross is for reference only

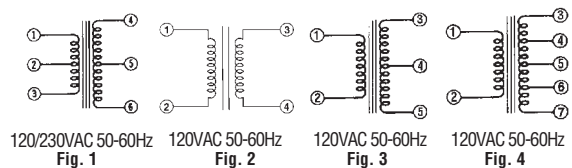


Power Transformers (7.6 Watts to 288 Watts)

Power transformers have both single and dual-voltage inputs and center-tapped outputs. This makes them the perfect choice for power supply design or for use in transformer, rectifier and filter circuits.

• Primary: 120VAC or 120/230VAC, 50-60Hz

* Web Code: PTL



| Part No. | Product No. | Triad Cross# | Primary Color Code | | | Watts (VA) | Secondary | | | | Lead Type | Fig. | Dimensions | | | Wt. (lbs.) | Pricing | | |
|----------|-------------|--------------|--------------------|---------|--------|------------|----------------|--------|------------|--------|-----------|------|------------|------|------|------------|---------|---------|--------|
| | | | | | | | Voltage | | Color Code | | | | L" | W" | H" | | 1 | 10 | 100 |
| 105524 | XR082-91-R | — | Black | White* | Red | 9.0 | 4.5VCT @ 1A | Blue | Black* | Blue | Wire | 1 | 1.82 | 2.43 | 1.67 | 0.7 | \$11.95 | \$10.95 | \$9.95 |
| 2230441 | 67-1125 | — | Lug | — | Lug | 30.0 | 6VCT @ 5A | Lug | Lug | Lug | Lug | 3 | 2.11 | 3.60 | 2.27 | 1.7 | 19.95 | 17.95 | 15.95 |
| 102163 | XFR6102 | F314X | Black | Yellow* | Red | 7.6 | 6.3VCT @ 1.2A | White | Black* | White | Wire | 1 | 1.84 | 2.40 | 1.67 | 0.8 | 10.95 | 9.95 | 8.95 |
| 221400 | P-8657 | F218X | Black | None | Black | 24.0 | 12VAC @ 2A | White | None | White | Wire | 2 | 1.89 | 2.75 | 1.99 | 1.3 | 11.95 | 10.95 | 9.95 |
| 221356 | P-8658 | F219X | Black | None | Black | 48.0 | 12VAC @ 4A | White | None | White | Wire | 2 | 2.25 | 4.00 | 2.63 | 2.3 | 12.95 | 11.95 | 10.95 |
| 2230475 | 67-1122 | — | Lug | None | Lug | 24.0 | 12VCT @ 2A | Lug | Lug | Lug | Lug | 3 | 1.67 | 2.70 | 1.64 | 0.7 | 10.95 | 9.95 | 8.95 |
| 2188502 | 53260 | — | Red | None | Green | 36.0 | 12/5VCT @ 3A | Purple | Multi | Gray | Wire | 4 | 2.36 | 2.34 | 1.94 | 1.3 | 6.95 | 6.25 | 5.95 |
| 2230926 | F-25X | — | Black | — | Black | 18.9 | 12.6VCT @ 1.5A | Blue | Yellow | Blue | Wire | 3 | 2.00 | 3.31 | 1.93 | 1.3 | 9.95 | 8.95 | 7.95 |
| 29226 | XFR122 | F44X | Yellow | None | Yellow | 25.2 | 12.6VCT @ 2A | Blue | Red* | Black | Wire | 3 | 2.41 | 2.79 | 1.99 | 1.5 | 13.95 | 12.49 | 10.95 |
| 102155 | XFR1220 | F344X | Black | Yellow* | Red | 25.2 | 12.6VCT @ 2A | White | Black* | White | Wire | 1 | 2.35 | 2.32 | 1.97 | 1.5 | 13.95 | 12.49 | 10.95 |
| 149771 | XFR1240 | F3181U | Black | Red* | Yellow | 50.4 | 12.6VCT @ 4A | White | Black* | White | Wire | 1 | 2.45 | 3.20 | 2.25 | 2.2 | 13.95 | 12.49 | 10.95 |
| 102121 | XFR124 | F181U | Black | None | Black | 50.4 | 12.6VCT @ 4A | White | Black* | White | Wire | 3 | 2.45 | 3.21 | 2.26 | 2.7 | 14.95 | 13.49 | 10.95 |
| 2230934 | P-8691 | — | Black | Black | Black | 18.0 | 18VCT @ 2A | Blue | Blue | Blue | Wire | 1 | 2.13 | 3.31 | 2.00 | 1.5 | 10.95 | 9.95 | 8.95 |
| 2230459 | 67-1245 | — | Lug | — | Lug | 60.0 | 12VCT @ 5A | Lug | Lug | Lug | Lug | 3 | 2.50 | 4.10 | 2.62 | 3.0 | 29.95 | 26.95 | 24.25 |
| 105532 | XFR1810 | — | Blue | Red* | Black | 18.0 | 18VCT @ 1A | Yellow | Black* | Yellow | Wire | 1 | 2.20 | 2.81 | 1.99 | 1.2 | 11.95 | 10.95 | 9.95 |
| 149957 | XFR1820 | — | Black | Red* | Yellow | 36.0 | 18VCT @ 2A | White | Black* | White | Wire | 1 | 2.25 | 3.15 | 2.71 | 1.8 | 12.95 | 11.95 | 10.95 |
| 112513 | XFR242N | F229X | Black | None | Black | 48.0 | 24VAC @ 2A | White | None | White | Wire | 2 | 2.33 | 3.16 | 2.28 | 1.8 | 13.95 | 12.49 | 10.95 |
| 221382 | P8396 | — | Black | None | Black | 9.6 | 24VCT @ 0.4A | White | Black* | White | Wire | 3 | 1.63 | 2.80 | 1.97 | 0.6 | 10.95 | 9.95 | 8.95 |
| 2230483 | 67-1241 | — | Lug | None | Lug | 24.0 | 24VCT @ 1A | Lug | Lug | Lug | Lug | 3 | 2.07 | 3.60 | 2.25 | 1.7 | 10.95 | 9.95 | 8.95 |
| 102112 | XFR2410 | F346X | Black | Yellow* | Red | 24.0 | 24VCT @ 1A | White | Black* | White | Wire | 1 | 2.41 | 2.80 | 1.99 | 1.5 | 11.95 | 10.95 | 9.95 |
| 2230491 | 67-1242 | — | Lug | None | Lug | 48.0 | 24VCT @ 2A | Lug | Lug | Lug | Lug | 3 | 2.50 | 4.10 | 2.60 | 3.0 | 12.95 | 11.95 | 10.95 |
| 221373 | P-8662 | F192X | Black | None | Black | 48.0 | 24VCT @ 2A | White | Black* | White | Wire | 3 | 2.44 | 3.60 | 2.23 | 2.3 | 13.95 | 12.49 | 10.95 |
| 221365 | P-8663† | F193U | Lug | None | Lug | 96.0 | 24VCT @ 4A | Lug | Lug | Lug | Lug | 3 | 2.81 | 2.94 | 4.00 | 4.0 | 25.95 | 23.95 | 21.49 |
| 149797 | XFR2820 | F3185U | Black | Red* | Yellow | 56.0 | 28VCT @ 2A | White | Black* | White | Wire | 1 | 2.45 | 3.22 | 2.26 | 2.3 | 13.95 | 12.95 | 10.95 |

* Center tap # Triad cross is for reference only † Solder terminal

* Audio Transformers — Enter Web Code SAJ

* Variable Transformers — Enter Web Code MAR

* DC Power Plugs & Adapters — Enter Web Code MFP

REGULATED SWITCHING WALL ADAPTERS — BEST SELLERS

| Part No. | Description | Page | Price |
|----------|-------------|------|--------|
| 2188537 | 5V @ 2.0A | 90 | \$6.95 |
| 2203741 | 9V @ 1.0A | 90 | 8.95 |
| 1940774 | 12V @ 1.0A | 90 | 10.49 |
| 2173116 | 12V @ 3.0A | 91 | 13.49 |
| 380191 | 18V @ 1.38A | 91 | 12.49 |
| 2229941 | 24V @ 0.5A | 91 | 11.95 |
| 2208972 | 24V @ 1.0A | 91 | 12.95 |



UNREGULATED AC-to-AC WALL ADAPTERS — BEST SELLERS

| Part No. | Description | Page | Price |
|----------|-------------|------|--------|
| 100061 | 9V @ 0.5A | 89 | \$8.95 |
| 102234 | 9V @ 1.0A | 89 | 9.95 |
| 112336 | 9V @ 1.5A | 89 | 10.95 |
| 10081 | 12V @ 1.0A | 89 | 9.95 |
| 2167576 | 12V @ 1.2A | 89 | 6.95 |
| 121216 | 18V @ 1.0A | 89 | 11.95 |
| 87581 | 24V @ 0.5A | 89 | 9.95 |
| 2100195 | 24V @ 1.5A | 89 | 14.95 |



* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
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Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Power Transformers & High Voltage Power Supply

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

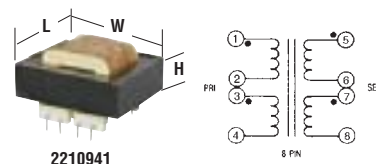
JAMECO ValuePro Split-Bobbin Power Transformers (12 & 20VA)

Non-concentrically wound with primaries and secondaries side-by-side providing low capacitive coupling.

- Primary: 120/230VAC, 50-60Hz
- PC terminal pin spacing for accurate placement

| Part No. | Cross Ref. No. | Triad Cross* | Input Voltage | Watts (VA) | Individual Output | Parallel Output | Series Output | Dimensions | | | Wt. (lbs.) | Pricing | | |
|----------|----------------|--------------|---------------|------------|-------------------|-----------------|----------------|------------|------|------|------------|---------|--------|--------|
| | | | | | | | | L" | W" | H" | | 1 | 10 | 100 |
| 2231152 | 3FL12-475 | — | 115/230 | 6 | 6.3V @ 0.5A | 6.3V @ 1.0A | 12.6VCT @ 0.5A | 1.56 | 1.88 | 1.1 | 0.4 | \$8.95 | \$6.95 | \$4.95 |
| 2210941 | DSW-612 | — | 120/230 | 20 | 6.3V @ 1.6A | 6.3V @ 3.2A | 12.6VCT @ 1.6A | 2.25 | 1.88 | 1.44 | 0.8 | 6.95 | 5.95 | 4.95 |
| 102593 | SPW-2304 | FS24500 | 120/230 | 12 | 12V @ 0.5A | 12V @ 1.0A | 24VCT @ 0.5A | 2.00 | 2.50 | 1.06 | 0.7 | 3.95 | 3.49 | 2.95 |

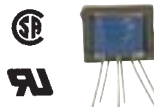
*Triad cross is for reference only



*Web Code: LBK

JAMECO ValuePro PC Mount Modem Coupling Transformer

- Core type: EI-14
- Insulation resistance: 100MΩ
- ±20% impedance matching and DC resistance matching
- Hipot tested: 1000VAC
- Vacuum wax impregnated



| Part No. | Cross Ref. No. | Impedance (Ω) | | Resistance (Ω) | | Pricing | | |
|----------|----------------|---------------|-----------|----------------|-----------|---------|--------|--------|
| | | Primary | Secondary | Primary | Secondary | 1 | 10 | 100 |
| 125357 | XFR6006A14 | 600CT | 600CT | 65 | 55 | \$4.49 | \$3.95 | \$3.75 |

TRIAD PC Mount Audio Transformer

- Impedance matching: 10% over frequency range
- 6-pin PC mount
- Output: 100mW
- Impedance (Ω): 600CT/600CT
- Primary DC Unbalance: 15mA

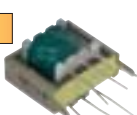


| Part No. | Mfr. Part No. | Dimensions (W x D x H) | 1 | 10 | 100 |
|----------|---------------|------------------------|--------|--------|--------|
| 630459 | TY-145P | 13/16" x 9/32" x 5/8" | \$5.95 | \$5.49 | \$4.49 |

Audio Transformer

*Web Code: SAJ

- 300Hz to 3.4kHz
- Primary turns: 11486; Secondary turns: 1
- 200mW power rating



| Part No. | Mfr. Part No. | Secondary Impedance | Primary Impedance | 1 | 10 | 100 |
|----------|---------------|---------------------|-------------------|--------|--------|--------|
| 2210511 | 42TM013-RC | 8Ω | 1kΩ | \$3.95 | \$3.59 | \$3.29 |

JAMECO ValuePro Data/Voice Coupling Transformer

- Turns ratio: 1:1 ±2%
- DC current: 90mA
- Primary impedance: 600Ω
- Secondary impedance: 600Ω
- Operating level: -45dBm to +10dBm



| Part No. | Mfr. Part No. | Dimensions (L x W x H) | 1 | 10 | 100 |
|----------|---------------|------------------------|--------|--------|--------|
| 2210992 | TTC-105 | 21.3mm x 16mm x 19mm | \$4.49 | \$3.95 | \$3.59 |

JAMECO ValuePro 500 to 2000VA Variable Transformers

Variable transformers are suitable for changing the brightness of a room, speeds of electric motor, or other testing systems in diverse conditions.

- Input: 110VAC or 220VAC
- Power: 500, 1000 or 2000VA
- Output: 0-240VAC
- Banana/screw input terminals
- Universal US/European output plugs
- Lighted on/off power switch



| Part No. | Fuse | Size (W" x D" x H") | Wt. (lbs.) |
|----------|----------------------|---------------------|------------|
| 121276 | 3A/250V (P/N 69439) | 5.3 x 7.3 x 7.0 | 10.4 |
| 129008 | 5A/250V | 9.4 x 6.5 x 7.7 | 14.8 |
| 152582 | 10A/250V (P/N 69462) | 9.0 x 7.0 x 7.7 | 19.8 |

| Part No. | Description | 1 | 5 |
|----------|--------------------|----------|----------|
| 121276 | 500VA transformer | \$129.95 | \$119.95 |
| 129008 | 1000VA transformer | 169.95 | 154.95 |
| 152582 | 2000VA transformer | 224.95 | 199.95 |

*AC Power Cords — Enter Web Code UBF

*Variable Transformers — Enter Web Code MAR

TOP SELLING POWER TRANSFORMERS

| Part No. | Description | 1 | 10 |
|----------|--------------|---------|---------|
| 221356 | 12VAC @ 4A | \$12.95 | \$11.95 |
| 149957 | 18VCT @ 2A | 12.95 | 11.95 |
| 101864 | 24VCT @ 2.4A | 10.95 | 9.49 |
| 221365 | 24VCT @ 4A | 25.95 | 23.95 |

JAMECO ValuePro 300VA Isolation Transformer 120VAC to 120VAC

- Input connector: 5.5' cord with 2-prong plug
- Output volt.: 120VAC @ 2.5A (isolated)
- Input voltage: 120VAC @ 60Hz
- Size: 3.2"W x 4.6"D x 4.2"H
- Weight: 7.0 lbs.



| Part No. | Cross Ref. No. | 1 | 5 | 25 |
|----------|----------------|---------|---------|---------|
| 181315 | ITR300 | \$49.95 | \$44.95 | \$39.95 |

JAMECO ValuePro Transformer Isolation

- Output: 120VAC/4A, 60Hz
- Input: 110VAC 60Hz, 1800VA
- Primary: Current: 14 Amps fuse Direct AC#1: 110VAC 60Hz, 900VA Direct AC#2: 110VAC 60Hz, 900VA
- Secondary: Current: 7 Amps fuse Isolated AC#1: 110VAC 60Hz, 450VA Isolated AC#2: 110VAC 60Hz, 450VA
- Dimension: 5"L x 6"W x 9"H



| Part No. | Mfr. Part No. | 1 | 5 | 25 |
|----------|---------------|---------|---------|---------|
| 2214336 | GRP-1200 | \$99.95 | \$89.95 | \$84.95 |

EMI Suppression Cores with Case

Reduce Electromagnetic Interference (EMI) with a snap of these suppression cores around a power cord or data cord. Easy to install and an affordable way to reduce EMI without redesigning your product.



- Impedance at 100MHz between 75-225Ω min.
- Color: black

| Part No. | InDia. | OutDia. | Length | 1 | 10 | 100 |
|----------|--------|---------|--------|--------|--------|--------|
| 218174 | .20" | .64" | 1.15" | \$1.25 | \$0.99 | \$0.75 |
| 217842 | .34" | .78" | 1.40" | 1.49 | 1.25 | .99 |
| 2202600 | .38" | .87" | 1.34" | 1.25 | .99 | .75 |
| 2081810 | .38" | 1.0" | 0.65" | 1.25 | .99 | .75 |

REGULATED SWITCHING WALL ADAPTERS



| Part No. | Voltage @ Current | Page | Price |
|----------|-------------------|------|--------|
| 2209262 | 12V @ 1.5A | 90 | \$9.95 |
| 2215726 | 12V @ 2.5A | 91 | 10.95 |

6kV-7.4kV High Voltage Power Supply

- Input voltage range: 113VAC to 132VAC
- Input lead wires: 22 AWG UL1015, 7.5'L: AC hot (black), AC COM (white), HV RTN (green)
- Output voltage: 6.0kV to 7.4kVA
- Output lead wires: 22 AWG UL3239, 10" (pink)
- UL94V-0 rated encapsulant filled epoxy
- Size: 3.0"L x 1.2"W x 1.0"H

| Part No. | Mfr. Part No. | Description | 1 | 10 | 50 | 100 |
|----------|---------------|---------------------------|--------|--------|--------|--------|
| 2100136 | CS2080A3 | High voltage power supply | \$4.49 | \$3.49 | \$2.95 | \$2.59 |



Power Entry Filters & International Power Cords



EMI Power Entry Filters (IEC Connector), Line Filters & AC Receptacles (IEC 320)



- Rated voltage: 115/250VAC • Operating frequency: 50/60Hz
- Hipot rating (one minute) line to ground: 2250VDC; line to line: 1450VDC

EMI Power Entry Filter: Maximum leakage current each line to ground:
@ 115VAC 60Hz: 0.20mA @ 250VAC 50Hz: 0.40mA

EMI Line Filter: Maximum leakage current each line to ground:
@ 115VAC 60Hz: 0.25mA; 1.0mA (1000pF) @ 250VAC 50Hz: 0.45mA; 2.0mA (1000pF)



* Web Code: ACR

| Part No. | Mfr. | Product No. | Description | Fig. | Current (A) | Hipot (VDC) | Terminals | Terminal Size | Agency Approvals | Dimension (in.) | | | | Pricing | | |
|----------|-----------|------------------|---|------|-------------|-------------|------------|---------------|------------------|-----------------|-------|-------|-------|---------|--------|--------|
| | | | | | | | | | | A | B | C | D | 1 | 10 | 100 |
| 1951529 | Delta | 01DEEG3V | Power entry filter, rt. angle (screw flanged) | 3 | 1 | 2250 | Faston | 0.25" | UL/CSA/VDE | 1.64 | 1.19 | 0.87 | 1.58 | \$.79 | \$.69 | \$.59 |
| 1172613 | Tyco | 1EGG1-2 | Pwr entry filter, straight, fused (screw flanged) | 1 | 1 | 2250 | Faston | 0.25" | UL/CSA/VDE | 1.62 | 1.29 | 1.44 | 1.27 | .99 | .89 | .79 |
| 2189599 | Adam Tech | PLF-1DZ2KR | Pwr entry filter, w/ fuse & switch (screw flanged) | 2 | 1 | 2250 | Faston | 0.25" | UL/CSA/VDE | 1.97 | 2.56 | 1.58 | 1.58 | 8.95 | 7.95 | 6.95 |
| 2178523 | Schurter | 5110.0343.1 | Power entry filter, straight (snap-in) | 4 | 3 | 2250 | Faston | 0.25" | UL/CUL | 1.42 | 0.91 | 1.19 | 0.80 | 1.95 | 1.75 | 1.49 |
| 2114116 | Adam Tech | PLF-3PC | Line filter, metal case (PC mount) | 5 | 3 | 250 | Solder | 0.039" | UL/CSA/VDE | 0.984 | 0.984 | 0.787 | — | 5.95 | 5.39 | 4.79 |
| 2217879 | Schaffner | FH365-4/05 | Power entry filter, straight, fused (screw flanged) | 1 | 4 | 2250 | Faston | 0.25" | UL/CSA/VDE | 2.30 | 1.10 | 1.26 | 1.40 | 1.09 | .99 | .89 |
| 1811391 | Delta | 06A2D | Power entry module (snap-in) | 6 | 4 | 2250 | Faston | 0.25" | UL/CSA/VDE | 2.65 | 2.50 | 1.06 | 1.11 | 4.95 | 3.95 | 2.95 |
| 1951570 | Delta | 05DRDG3S (5ER7)† | Power entry filter, 6-32 threaded panel mount | 7 | 5 | 2250 | Faston | 0.25" | UL/CSA/VDE | 3.15 | 1.97 | 1.28 | 1.58 | 2.59 | 2.29 | 2.09 |
| 2114124 | Adam Tech | PLF-6DZ2KR | Pwr entry filter, strght, fuse & sw. (scrw flngd) | 9 | 6 | 250 | Faston | 0.25" | UL/CSA/VDE | 1.968 | 2.559 | 2.394 | 1.154 | 9.95 | 8.95 | 7.95 |
| 1951588 | Delta | 06DEEG3V | Power entry filter, right angle (screw flanged) | 3 | 6 | 2250 | Faston | 0.25" | UL/CSA/VDE | 1.64 | 1.19 | 0.87 | 1.58 | 1.49 | 1.25 | 1.09 |
| 2197871 | Delta | 06BENG3G | Power entry filter, male (snap-in) | 8 | 6 | 2250 | Faston | 0.32" | UL/CSA/VDE | 0.30 | 1.90 | 1.10 | 1.70 | 5.95 | 4.95 | 3.95 |
| 1172672 | Corcom | IVB3 | Line filter (flange mount) | 16 | 10 | 2250 | 1.5" Wire | Wire | UL/CSA/VDE | 0.96 | 1.82 | 0.66 | 2.53 | 4.95 | 3.95 | 2.95 |
| 2178507 | Arndt | 6100-4115 | AC power inlet, male (snap-in) | 13 | 10 | 250 | Solder | 0.14" | UL/CSA/VDE | 1.19 | 0.91 | 1.06 | 0.77 | .29 | .25 | .19 |
| 117445 | ValuePro | 0717# | AC power inlet, male w/ fuse chamber (snap-in) | 14 | 10 | 250 | Faston | 0.187" | UL/CSA/VDE | 1.18 | 1.30 | 1.05 | 1.20 | 1.95 | 1.79 | 1.59 |
| 265528 | ValuePro | WS-044# | AC power inlet, male w/ fuse chamber (screw) | 15 | 10 | 250 | Faston | 0.187" | UL/CSA/VDE | 1.40 | 1.28 | 1.06 | 1.21 | 1.75 | 1.49 | 1.25 |
| 2232868 | Schurter | DC11.0001.001 | AC power inlet, male w/ switch (screw) | 15 | 10 | 250 | Faston | 0.187" | UL/CSA/VDE | 1.73 | 1.34 | 1.06 | 1.43 | 7.95 | 6.95 | 5.95 |
| 2197880 | Delta | 10DRCS5 | Power entry filter (flange mount) | 16 | 10 | 2250 | Threadpost | 0.164" | UL/CSA/VDE | 3.87 | 1.52 | 2.94 | 1.21 | 5.95 | 4.95 | 3.95 |
| 2230176 | Qualtech | 851-10/007 | Power line EMI filter (flange mount) | 20 | 10 | 2250 | Faston | 0.25" | UL/CSA/VDE | 2.54 | 2.13 | 1.18 | — | 6.95 | 2.59 | 2.39 |
| 2189521 | Adam Tech | IEC-GS-1-150#2 | Pwr entry male filter, w/ fuse & switch (snap-in) | 17 | 15 | 250 | Faston | 0.187" | UL/CSA/VDE | 1.20 | 1.97 | 1.07 | 1.84 | 2.95 | 2.75 | 2.49 |
| 2189564 | Adam Tech | NEMA-5-1-A | AC pwr inlet, NEMA fem, angled GND pin (snap-in) | 10 | 15 | 125 | Faston | 0.25" | UL/CSA/VDE | 1.06 | 1.06 | 0.70 | 0.85 | .79 | .69 | .59 |
| 2189572 | Adam Tech | NEMA-5-1-B | AC pwr inlet, NEMA fem, straight GND pin (snap-in) | 10 | 15 | 125 | Faston | 0.25" | UL/CSA/VDE | 1.06 | 1.06 | 0.70 | 0.85 | .99 | .85 | .69 |
| 2114095 | Adam Tech | NEMA-5-2* | AC power outlet, NEMA receptacles (snap-in) | 10 | 15 | 125 | Fork | 0.25" | UL/CSA/VDE | 1.063 | 1.063 | 0.70 | 0.866 | .99 | .85 | .69 |
| 147901 | ValuePro | 701R | AC power inlet, male (screw flanged) | 11 | 15 | 250 | Faston | 0.187" | UL/CSA/VDE | 1.97 | 0.76 | 1.06 | 1.58 | 1.09 | .99 | .79 |
| 16652 | ValuePro | JR101 | AC power inlet, male (screw flanged) | 11 | 15 | 250 | Faston | 0.25" | UL/CSA/VDE | 1.97 | 0.76 | 1.06 | 1.58 | 1.09 | .99 | .79 |
| 2178494 | Arndt | EAC-324 | AC power inlet, male, straight (screw flanged) | 12 | 15 | 250 | Solder | 0.16" | UL/CSA/VDE | 1.96 | 0.89 | 1.09 | 1.09 | .39 | .35 | .29 |
| 2178515 | Arndt | EAC-409 | AC power inlet, male (snap-in) | 13 | 15 | 250 | Solder | 0.16" | UL/CSA/VDE | 1.22 | 0.94 | 1.06 | 0.78 | .39 | .29 | .19 |
| 147109 | ValuePro | 42R02 | AC power inlet, male (snap-in) | 13 | 15 | 250 | Faston | 0.25" | UL/CSA/VDE | 1.23 | 0.95 | 1.04 | 0.77 | .99 | .89 | .75 |
| 2095525 | Adam Tech | IEC-GS-1-100#1 | AC pwr inlet, male w/ sw. & fuse folder (snap-in) | 17 | 15 | 250 | Faston | 0.187" | UL/CSA/VDE | 1.20 | 1.97 | 1.07 | 1.84 | 2.95 | 2.75 | 2.49 |
| 1954640 | ValuePro | K2415 | AC power inlet, female (snap-in) | 18 | 15 | 250 | Faston | 0.187" | UL/CSA/VDE | 1.38 | 0.98 | 1.26 | 1.10 | .39 | .35 | .25 |
| 1954658 | ValuePro | K2414 | AC power inlet, female (screw flanged) | 19 | 15 | 250 | Faston | 0.187" | UL/CSA/VDE | 1.97 | 1.14 | 1.26 | 0.95 | 1.49 | 1.35 | 1.19 |
| 2157546 | Adam Tech | IEC-GS-1-200#3 | AC pwr fused inlet, male w/ switch (snap-in) | 17 | 15 | 250 | Faston | 0.187" | UL/CSA/VDE | 1.20 | 1.97 | 1.07 | 1.84 | 2.95 | 2.59 | 2.39 |
| 2229298 | Schurter | 6100-43 | AC power inlet, male (snap-in) | 13 | 15 | 250 | Faston | 0.25" | UL/CSA/VDE | 1.18 | 0.90 | 1.06 | 0.77 | .79 | .69 | .59 |

† High Performance; Increased filtering; Added bleed resistor; More safety agencies * For 14-16 AWG wire # Includes spare fuse holder - fuse type 5mm x 20mm (250V); Panel thickness: 1.04", 2.06", 3.08"



International Power Cords

- Voltage rating: 300V
- Cord type: H05VVH
- 3-conductor detachable power cords
- Cord color: black
- BSI: British Standard Institution
- 2202301 With RFI filter



| Part No. | Cross Ref. No. | Country | Agency Approvals | Plug Fig. | Cord Length | Conductors | Pricing | | |
|----------|----------------|------------|------------------|-----------|-------------|------------|---------|--------|--------|
| | | | | | | | 1 | 10 | 100 |
| 117911 | 2171H576 | Europe | All | 1/A | 6 ft. | 3/0.75mm | \$4.95 | \$4.49 | \$3.95 |
| 174633 | 21071H5182 | UK/Ireland | BSI | 2/A | 8 ft. | 3/1.0mm | 6.95 | 6.25 | 5.59 |
| 2202301 | 2171RF110 | UK/Ireland | BSI | 2/A | 10 ft. | 3/1.0mm | 1.95 | 1.75 | 1.49 |

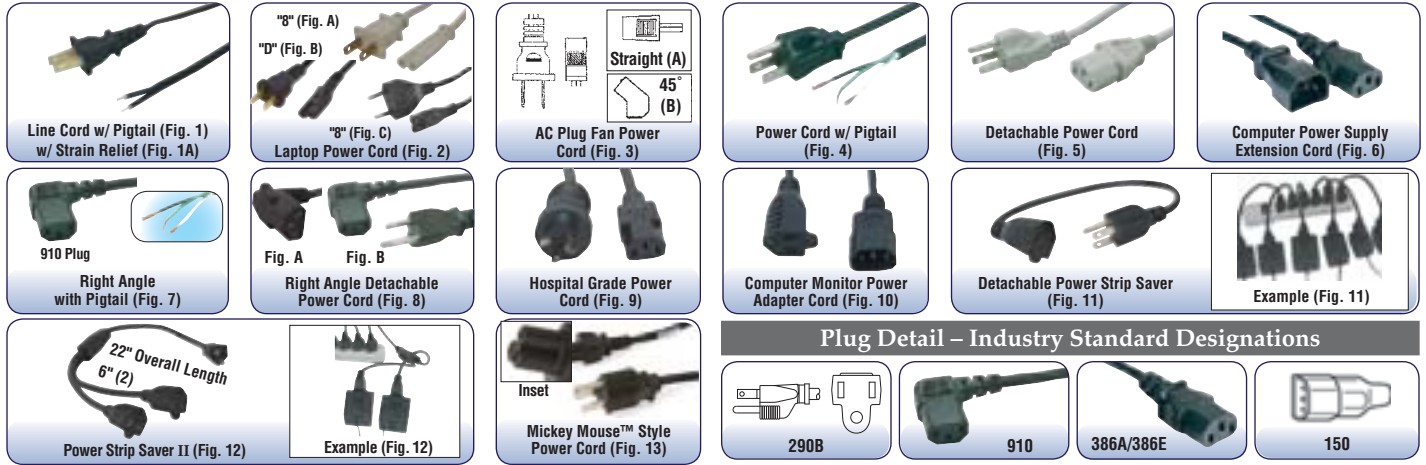
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Power Cords

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



Plug Detail – Industry Standard Designations

JAMECO ValuePro 2 & 3-Conductor Fan, Pigtail, Detachable & Hospital Grade Power Cords

- Molded connectors
- Excellent resistance to jacket abrasion
- Voltage rating: 300 volts
- Temperature: -20°C to +60°C

★ Web Code: UBF



| AWG | Volts | Amps | VA |
|-----|-------|------|------|
| 18 | 125 | 10 | 1250 |
| 16 | 125 | 12 | 1500 |
| 14 | 125 | 15 | 1875 |

2-Conductor Line Cords with Pigtail

| Part No. | Product No. | *Mfr. | Wt. | Fig. | Length | Color | AWG/Cond | Cord Type* | Pricing | | | |
|----------|-------------|-------|-----|------|--------|-------|----------|------------|---------|--------|--------|--------|
| | | | | | | | | | 1 | 10 | 50 | 100 |
| 124434 | ST008 | JVP | .16 | 1 | 6' | Black | 18/2 | SPT-2 | \$2.49 | \$2.25 | \$1.95 | \$1.75 |
| 2230803 | SPT-6-C# | JVP | .16 | 1 | 6' | Black | 18/2 | SPT-2 | 1.95 | 1.75 | 1.59 | 1.35 |
| 42042 | SY-001-R | JVP | .18 | 1A | 6' | Black | 18/2 | SPT-2 | 2.95 | 2.75 | 2.49 | 2.25 |

2-Conductor "8" Style Power Cords for Laptops and Power Supplies

| | | | | | | | | | | | | |
|---------|------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|
| 189587 | VW-1 | ADT | .30 | 2A | 6' | Black | 18/2 | SPT-2 | \$2.95 | \$2.69 | \$2.39 | \$2.19 |
| 2228666 | EP-1 | JVP | .30 | 2C | 6' | Black | 18/2 | SPT-2 | 2.95 | 2.69 | 2.39 | 2.19 |

2-Conductor "D" Style Power Cord for Laptops and Power Supplies

| | | | | | | | | | | | | |
|--------|----------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|
| 200791 | LL114039 | JVP | .30 | 2B | 6' | Black | 18/2 | SPT-2 | \$2.49 | \$2.25 | \$1.95 | \$1.75 |
|--------|----------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|

2-Conductor AC Plug Fan Power Cords

| | | | | | | | | | | | | |
|---------|-------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|
| 1952572 | FACS | JVP | .40 | 3A | 6' | Black | 18/2 | SPT-2 | \$3.95 | \$3.59 | \$3.19 | \$2.49 |
| 1952581 | FAC45 | JVP | .40 | 3B | 6' | Black | 18/2 | SPT-2 | 4.95 | 4.59 | 3.95 | 3.49 |

3-Conductor Power Cords with Pigtail (Unshielded) 290 Plug

| | | | | | | | | | | | | |
|---------|-----------|-----|-----|---|-----|-------|------|-----|--------|--------|--------|--------|
| 38009 | 17237 | JVP | .31 | 4 | 6' | Gray | 18/3 | SVT | \$3.79 | \$3.39 | \$2.95 | \$2.79 |
| 2158258 | 17236SR## | JVP | .35 | 4 | 6' | Black | 18/3 | SVT | 3.49 | 2.95 | 2.75 | 2.49 |
| 37997 | 17236 | JVP | .30 | 4 | 6' | Black | 18/3 | SVT | 4.95 | 4.49 | 3.95 | 3.59 |
| 173810 | 17405 | JVP | .14 | 4 | 6' | Gray | 18/3 | SJT | 3.95 | 3.59 | 3.25 | 2.95 |
| 159410 | 17405B | JVP | .37 | 4 | 6' | Black | 18/3 | SJT | 4.95 | 4.49 | 3.95 | 3.59 |
| 38025 | 17238 | JVP | .42 | 4 | 8' | Black | 18/3 | SVT | 5.95 | 5.49 | 4.95 | 4.49 |
| 102007 | 17535B† | JVP | .49 | 4 | 10' | Black | 18/3 | SVT | 6.95 | 6.25 | 5.95 | 5.59 |
| 196286 | LL40378 | JVP | .80 | 4 | 10' | Black | 16/3 | SJT | 6.95 | 6.25 | 5.49 | 4.49 |
| 2217908 | 00960018 | JVP | .41 | 4 | 6' | Black | 14/3 | SJT | 7.95 | 6.95 | 6.25 | 5.59 |
| 100272 | 17629B | JVP | .88 | 4 | 9' | Black | 14/3 | SJT | 9.95 | 8.95 | 7.95 | 6.95 |

3-Conductor Detachable Power Cords (Unshielded) 290B/386A Plugs

| | | | | | | | | | | | | |
|---------|------------|-----|-----|---|-----|-------|------|-----|--------|--------|--------|--------|
| 2081801 | 17002A | JVP | .36 | 5 | 1' | Black | 18/3 | SVT | \$2.95 | \$2.65 | \$2.39 | \$1.95 |
| 2082425 | 17000A | JVP | .35 | 5 | 3' | Black | 18/3 | SVT | 3.25 | 2.95 | 2.59 | 2.29 |
| 38041 | 17249 | JVP | .37 | 5 | 6' | Beige | 18/3 | SVT | 3.49 | 2.95 | 2.49 | 1.95 |
| 2202280 | 17250RFI\$ | ADT | .36 | 5 | 6' | Black | 18/3 | SVT | 2.95 | 2.59 | 2.29 | 1.95 |
| 38050 | 17250 | JVP | .36 | 5 | 6' | Black | 18/3 | SVT | 4.95 | 4.49 | 3.95 | 3.59 |
| 132118 | 17500 | JVP | .44 | 5 | 6' | Black | 18/3 | SJT | 4.95 | 4.49 | 3.95 | 3.25 |
| 1585637 | 171096 | JVP | .60 | 5 | 8' | Black | 18/3 | SVT | 4.95 | 4.49 | 3.95 | 3.59 |
| 2202271 | 17501RFI\$ | ADT | .55 | 5 | 10' | Black | 18/3 | SVT | 3.95 | 3.49 | 2.95 | 2.59 |
| 102024 | 17501V | JVP | .55 | 5 | 10' | Black | 18/3 | SVT | 6.95 | 6.25 | 5.95 | 5.49 |
| 2145051 | 177323 | JVP | .70 | 5 | 15' | Black | 18/3 | SVT | 9.95 | 8.95 | 7.95 | 7.49 |
| 2126053 | LL76932\$ | ADT | .52 | 5 | 6' | Black | 16/3 | SJT | 3.95 | 2.95 | 2.49 | 1.95 |
| 159361 | 17602 | JVP | .52 | 5 | 6' | Black | 16/3 | SJT | 5.95 | 5.39 | 4.79 | 4.29 |
| 1537230 | LL34877 | JVP | .72 | 5 | 8' | Black | 16/3 | SJT | 7.95 | 6.95 | 6.25 | 5.59 |
| 125541 | 17504 | JVP | .72 | 5 | 6' | Black | 14/3 | SJT | 7.95 | 7.19 | 6.49 | 5.79 |
| 2272981 | 1181924 | ADT | .95 | 5 | 10' | Black | 14/3 | SJT | 6.95 | 6.25 | 5.59 | 4.95 |

#Cut leads ##.55" x .62" strain relief †European standard insulation color code \$RFI filter on cord ††Right angle *Thermoplastic Cord Jacket Type: SPT-2 (Flat): Junior duty; SVT (Round): Light service; SJT (Round): Junior service

* JVP = Jameco ValuePro | ADT = Arndt Electronics | ZTK = Ziotek

3-Conductor Detachable Power Cords (Shielded) 290B/386A Plugs

| Part No. | Product No. | *Mfr. | Wt. | Fig. | Length | Color | AWG/Cond | Cord Type* | Pricing | | | |
|----------|-------------|-------|-----|------|--------|-------|----------|------------|---------|--------|--------|--------|
| | | | | | | | | | 1 | 10 | 50 | 100 |
| 161761 | 17742 | JVP | .40 | 5 | 6' | Black | 18/3 | SVT | \$4.49 | \$3.95 | \$3.59 | \$2.95 |

3-Conductor Computer Power Supply Extension Cords (150/386A/910 Plugs)

| | | | | | | | | | | | | |
|---------|------------|-----|-----|---|-----|-------|------|-----|--------|--------|--------|--------|
| 206172 | PEC-3 | JVP | .22 | 6 | 3' | Black | 18/3 | SVT | \$3.49 | \$2.95 | \$2.49 | \$1.95 |
| 319804 | LR94903 | ADT | .82 | 6 | 6' | Gray | 18/3 | SVT | 1.49 | 1.35 | 1.19 | 1.05 |
| 28468 | PEC | JVP | .36 | 6 | 6' | Black | 18/3 | SVT | 3.95 | 3.55 | 3.19 | 2.79 |
| 2133595 | PEC-SJT | ADT | .36 | 6 | 6' | Black | 18/3 | SJT | 2.95 | 2.59 | 2.29 | 1.95 |
| 420224 | 10W1-02212 | JVP | .53 | 6 | 12' | Black | 18/3 | SVT | 5.95 | 5.39 | 4.79 | 4.25 |

3-Conductor Right Angle Detachable Power Cords (Unshielded) 290B/910 Plugs

| | | | | | | | | | | | | |
|--------|-----------|-----|-----|----|-----|-------|------|-----|--------|--------|--------|--------|
| 117357 | 8120-6177 | JVP | .41 | 8B | 6' | Gray | 18/3 | SVT | \$3.95 | \$3.55 | \$3.19 | \$2.79 |
| 38077 | 17250R | JVP | .54 | 8B | 6' | Black | 18/3 | SVT | 3.95 | 3.55 | 3.19 | 2.79 |
| 177384 | 17507 | JVP | .28 | 8B | 10' | Black | 18/3 | SVT | 4.95 | 4.49 | 3.95 | 3.49 |

3-Conductor Right Angle Detachable Power Cord (Shielded) 290B/910 Plugs

| | | | | | | | | | | | | |
|--------|-------|-----|-----|----|------|-------|------|-----|--------|--------|--------|--------|
| 173252 | 17745 | JVP | .16 | 8B | 6'7" | Black | 18/3 | SVT | \$5.95 | \$5.39 | \$4.79 | \$4.25 |
|--------|-------|-----|-----|----|------|-------|------|-----|--------|--------|--------|--------|

3-Conductor Hospital Grade Power Cords (green dot)

| | | | | | | | | | | | | |
|---------|------------|-----|-----|---|-----|------|------|-----|---------|--------|--------|--------|
| 2231347 | E156549 | JVP | .75 | 9 | 8' | Gray | 16/3 | SJT | \$10.95 | \$9.95 | \$8.95 | \$7.95 |
| 2227591 | 0318-120†† | JVP | .75 | 9 | 10' | Gray | 18/3 | SJT | 10.95 | 9.95 | 8.95 | 8.25 |
| 132011 | 17006G | JVP | .82 | 9 | 10' | Gray | 16/3 | SJT | 12.95 | 11.95 | 10.95 | 9.95 |

3-Conductor Computer Monitor Power Adapter Cord (150/386 Plugs)

| | | | | | | | | | | | | |
|--------|------|-----|-----|----|----|-------|------|-----|--------|--------|--------|--------|
| 177448 | MPC1 | JVP | .16 | 10 | 1' | Black | 18/3 | SVT | \$2.95 | \$2.69 | \$2.39 | \$2.19 |
|--------|------|-----|-----|----|----|-------|------|-----|--------|--------|--------|--------|

3-Conductor Detachable Power Cord (Power Strip Saver) 290B/386 Plugs

| | | | | | | | | | | | | |
|--------|-------|-----|-----|----|----|-------|------|-----|--------|--------|--------|--------|
| 199778 | PSS-1 | JVP | .16 | 11 | 1' | Black | 18/3 | SVT | \$2.95 | \$2.69 | \$2.39 | \$2.15 |
|--------|-------|-----|-----|----|----|-------|------|-----|--------|--------|--------|--------|

3-Conductor Power Cord ("Y" Type Power Strip Saver II) 290B/386 (2) Plugs

| | | | | | | | | | | | | |
|--------|----------|-----|-----|----|-----|-------|------|-----|--------|--------|--------|--------|
| 208347 | 121-2594 | ZTK | .38 | 12 | 22' | Black | 16/3 | SJT | \$8.95 | \$7.95 | \$7.49 | \$6.95 |
|--------|----------|-----|-----|----|-----|-------|------|-----|--------|--------|--------|--------|

3-Conductor "Mickey Mouse" Style Power Supply Cords (2 Prong Plug w/ Ground)

| | | | | | | | | | | | | |
|---------|--------|-----|-----|----|----|-------|------|-------|--------|--------|--------|--------|
| 2201560 | CMC105 | ADT | .40 | 13 | 6' | Black | 18/3 | VCTP | \$1.59 | \$1.45 | \$1.19 | \$1.05 |
| 1953559 | MMFLAT | ADT | .40 | 13 | 6' | Black | 18/3 | SPT-2 | 2.95 | 2.59 | 2.29 | 1.95 |
| 1951123 | MMPC | JVP | .40 | 13 | 6' | Black | 18/3 | SVT | 2.95 | 2.59 | 2.29 | 1.95 |

POWER CORD ADAPTERS

2188545: Receptacle IEC plug C14 to Nema 5-15R

2188553: Receptacle CEE 7/7 to Nema 5-15R plug

| Part No. | Cross Ref. No. | 1 | 10 | 50 |
|----------|----------------|--------|--------|--------|
| 2188545 | YL-3215 | \$3.95 | \$3.59 | \$3.29 |
| 2188553 | YL-2215 | 3.95 | 3.59 | 3.29 |





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- Short-circuit, overload and overvoltage protection
- Two-year warranty



- † **PFC Model:**
- Built-in active Power Factor Correction function, power factor >0.93
 - Three-year warranty



PS-25



LPP-150



PT-45

| Part No. | Manufacturer | Mfr. Part No. | Output | | Input (VAC @ Hz) | Size (L"xW"xH") | Mounting Holes (L"xW"xDia.") | Ripple & Noise (mV p-p)* | Load Reg. (±%)* | Line Reg. (±%)* | EFF (%)§ | Certification | Pricing | | |
|--------------------------|--------------|---------------|---|--------|---------------------|--------------------|------------------------------------|--------------------------------|-----------------------|-----------------------|-------------|------------------------|-----------------|------------------------|--|
| | | | Voltage @ Current (min-max) | Power | | | | | | | | | 1 | 10 | |
| ★ 3.3-5.5V Web Code: OFI | | | ★ 7.5-13.8V Web Code: OTW | | | Single Output | | | | | | ★ 15-24V Web Code: OFT | | ★ 27-54V Web Code: OFE | |
| 2188730 | Phihong | PSA10L-050 | +5V @ 0-2A | 10W | 85-264 @ 47-440 | 3.8x1.8x0.8 | 4.2"Lx0.14"Dia. | 80 | 1.0 | 2.0 | 75 | UL/CUL/TUV/CE | \$4.95 | \$4.49 | |
| 2210722 | Phihong | PSA25-105 | +5V @ 0-4A | 20W | 100-240 @ 47-63 | 4.0x3.0x1.3 | 3.6x2.6x0.16 | 50 | 2.0 | 1.0 | 70 | UL/CSA/DE | 7.49 | 6.49 | |
| 2227583 | Power One | BLP30-1005G | +5V @ 0-5A | 25W | 100-250 @ 50-60 | 4.0x2.0x1.0 | 3.7x1.7x0.15 | 100 | 2.0 | 1.0 | 70 | UL/CUL/TUV/CE | 9.95 | 8.95 | |
| 2227567 | Power One | BLP40-1005G | +5V @ 0-5A | 25W | 100-250 @ 50-60 | 5.0x3.0x1.0 | 4.5x2.5x0.16 | 100 | 2.0 | 1.0 | 70 | UL/CUL/TUV/CE | 9.95 | 8.95 | |
| 212354 | Mean Well | PS-25-5 | +5V @ 0-5A | 25W | 100-250 @ 50-60 | 5.0x3.0x1.0 | 4.5x2.5x0.16 | 100 | 2.0 | 1.0 | 70 | UL/CUL/TUV/CE | 11.49 | 9.95 | |
| 217332 | Mean Well | PS-45-5 | +5V @ 0-8A | 40W | 90-264 @ 47-440 | 5.0x3.0x1.1 | 4.6x2.6x0.2 | 100 | 3.0 | 1.0 | 74 | UL/CUL/TUV/CE | 12.75 | 10.49 | |
| 2188772 | UMEC | UP0401S-09 | +9V @ 0-4.4A | 40W | 90-264 @ 47-63 | 4.0x3.0x1.0 | 3.6x2.6x0.2 | 100 | 1.0 | 1.0 | 70 | UL/CSA/TUV | 6.95 | 5.95 | |
| 2105666 | Mean Well | PS-15-12 | +12V @ 0-1.25A | 15W | 85-264 @ 47-63 | 3.7x1.9x1.0 | 3.4x1.9x0.1 | 150 | 0.5 | 0.5 | 77 | CB/CE | 7.49 | 6.49 | |
| 2227559 | Power One | BLP30-1012G | +12V @ 0-2.1A | 25W | 100-250 @ 50-60 | 4.0x2.0x1.0 | 3.7x1.7x0.15 | 100 | 2.0 | 1.0 | 70 | UL/CUL/TUV/CE | 8.95 | 7.95 | |
| 148604 | Mean Well | PS-25-12 | +12V @ 0-2.1A | 25.2W | 85-264 @ 47-63 | 4.2x2.4x1.1 | 3.7x2.1x0.1 | 100 | 2.0 | 0.3 | 78 | UL/CUL/TUV/CE | 10.49 | 9.49 | |
| 213728 | Mean Well | PS-45-12 | +12V @ 0-3.7A | 44.4W | 90-264 @ 47-440 | 5.0x3.0x1.1 | 4.6x2.6x0.2 | 100 | 2.0 | 1.0 | 76 | UL/CUL/TUV/CE | 12.75 | 10.49 | |
| 252401 | Mean Well | LPS-50-12 | +12V @ 0-4.2A | 50.4W | 90-264 @ 47-63 | 7.6x2.1x0.9 | 7.3x1.7x0.1 | 80 | 2.0 | 1.0 | 82 | UL/CUL/TUV/CE | 12.49 | 10.49 | |
| 2205413 | Astrodyne | ASM60-1380** | +12V @ 0-5A | 60W | 100-240 @ 50-60 | 4.0x2.0x1.7 | 3.7x1.7x0.1 | 100 | 3.0 | 1.0 | 84 | UL/CUL/TUV/CE | 4.95 | 4.49 | |
| 148639 | Mean Well | PS-65-12 | +12V @ 0-5.2A | 62.4W | 90-264 @ 47-440 | 5.0x3.0x1.7 | 4.5x2.5x0.15 | 100 | 2.0 | 1.0 | 79 | UL/CUL/TUV/CE | 13.95 | 11.75 | |
| 2099981 | ITE | SBU60-105 | +12V @ 0-5.25A | 63W | 90-264 @ 47-63 | 5.0x3.0x1.1 | 4.6x2.6x0.15 | 120 | 3.0 | 0.5 | 80 | UL/CUL/CE | 8.95 | 7.95 | |
| 213681 | Mean Well | LPP-150-12† | +12V @ 0-12.5A | 150W | 85-264 @ 47-63 | 8.7x2.4x1.6 | 8.3x2.6x0.15 | 100 | 1.0 | 0.5 | 79 | UL/CUL/TUV/CE | 29.95 | 26.95 | |
| 2210731 | Phihong | PSA25-115 | +15V @ 0-1.6A | 24W | 100-240 @ 47-63 | 4.0x3.0x1.3 | 3.6x2.6x0.16 | 150 | 2.0 | 1.0 | 70 | UL/CSA/DE | 5.95 | 4.95 | |
| 216751 | Mean Well | PS-65-15 | +15V @ 0-4.2A | 63W | 90-264 @ 47-440 | 5.0x3.0x1.7 | 4.5x2.5x0.2 | 100 | 2.0 | 1.0 | 79 | UL/CUL/TUV/CE | 13.95 | 11.75 | |
| 216670 | Mean Well | LPP-100-15† | +15V @ 0-6.7A | 100W | 85-264 @ 47-63 | 8.7x2.4x1.3 | 8.3x2.0x0.14 | 100 | 0.5 | 0.5 | 80 | UL/CUL/TUV/CE | 16.95 | 14.95 | |
| 212346 | Mean Well | PS-25-24 | +24V @ 0-1A | 24W | 85-264 @ 47-63 | 4.2x2.4x1.1 | 3.7x2.1x0.1 | 240 | 2.0 | 0.2 | 79 | UL/CUL/TUV/CE | 11.49 | 9.95 | |
| 2227575 | Power One | BLP40-1024G | +24V @ 0-1.1A | 26.4W | 100-250 @ 50-60 | 5.0x3.0x1.0 | 4.5x2.5x0.16 | 100 | 2.0 | 1.0 | 70 | UL/CUL/TUV/CE | 9.95 | 8.95 | |
| 213720 | Mean Well | PS-45-24 | +24V @ 0-1.9A | 45.6W | 90-264 @ 47-440 | 4.0x2.0x0.9 | 3.8x1.8x0.1 | 200 | 2.0 | 1.0 | 78 | UL/CUL/TUV/CE | 12.75 | 10.49 | |
| 148647 | Mean Well | PS-65-24 | +24V @ 0-2.7A | 64.8W | 90-264 @ 47-440 | 5.0x3.0x1.7 | 4.5x2.5x0.2 | 100 | 2.0 | 1.0 | 80 | UL/CUL/TUV/CE | 13.95 | 11.95 | |
| 173463 | Mean Well | LPS-100-24† | +24V @ 0-4.2A | 100.8W | 88-264 @ 47-63 | 8.7x2.4x1.3 | 8.4x2.1x0.1 | 150 | 0.5 | 0.5 | 80 | UL/CUL/TUV/CE | 24.95 | 21.95 | |
| 213672 | Mean Well | LPP-150-24† | +24V @ 0-6.25A | 150W | 85-264 @ 47-63 | 8.7x2.4x1.6 | 8.3x2.6x0.2 | 150 | 0.5 | 0.5 | 83 | UL/CUL/TUV/CE | 29.95 | 26.95 | |
| 668730 | Mean Well | PPS-200-24† | +24V @ 0-8.3A | 199.2W | 90-264 @ 47-63 | 5.0x3.0x1.4 | 3.7x7.8x0.14 | 150 | 1.0 | 0.5 | 89 | UL/CUL/TUV/CE | 49.95 | 44.95 | |
| 2100689 | Mean Well | ASP-150-48 | +48V @ 0-3.2A | 153.6W | 90-264 @ 47-63 | 6.7x2.4x1.1 | 4.2x2.0x0.71 | 89 | 0.5 | 0.5 | 89 | UL/CUL/CE/CB | 49.95 | 44.95 | |
| Double Output | | | | | | | | | | | | | ★ Web Code: OFX | | |
| 212338 | Mean Well | PD-25A | +5V @ 0.2-2.5A; +12V @ 0.1-1.5A | 30.5W | 85-264 @ 47-63 | 4.2x2.4x1.1 | 3.7x2.08x0.1 | 50;150 | 1.0 | 0.5 | 71 | UL/CUL/TUV/CE | \$13.49 | \$12.49 | |
| 194862 | Mean Well | PD-45A | +5V @ 0.4-3.2A; +12V @ 0.2-2 | 40W | 90-264 @ 47-440 | 5.0x2.5x1.5 | 4.5x2.5x0.2 | 50;120 | 3.0 | 1.0 | 77 | UL/CSA | 12.49 | 11.49 | |
| 2215697 | Artesyn | NLP40-7629J | +5V @ 4A; +12V @ 0-2A | 44W | 90-264 @ 47-63 | 4.2x2.5x1.1 | 4.0x2.2x0.1 | 50;120 | 3.0 | 1.0 | 75 | UL/CSA/CE | 9.95 | 8.95 | |
| 2197741 | Skytne | SNP-N563 | +5V @ 1.0-8A; +3.3V @ 0.5-6A | 60W | 85-264 @ 47-63 | 5.0x3.0x1.1 | 4.6x2.6x0.2 | 50 | 3.0 | 1.0 | 70 | UL | 8.49 | 7.49 | |
| 194889 | Mean Well | PD-65A | +5V @ 0.4-7A; +12V @ 0.2-3.2A | 61.1W | 90-264 @ 47-440 | 5.0x3.0x1.7 | 4.5x2.5x0.2 | 50;120 | 3.0 | 1.0 | 78 | UL/CUL/TUV/CE | 14.25 | 12.95 | |
| 194897 | Mean Well | PD-65B | +5V @ 0.4-3.5A; +24V @ 0.2-2A | 65.5W | 90-264 @ 47-440 | 5.0x3.0x1.7 | 4.5x2.5x0.2 | 50;150 | 3.0 | 1.0 | 81 | UL/CUL/TUV/CE | 14.25 | 12.95 | |
| 148690 | Mean Well | PD-2512 | +12V @ 0.1-1.2A; -12V @ 0.1-1A | 24W | 85-264 @ 47-63 | 4.2x2.4x1.1 | 3.7x2.1x0.1 | 50 | 3.0 | 0.5 | 74 | UL/CUL/TUV/CE | 11.49 | 10.75 | |
| 2100857 | Mean Well | PD-2515 | +15V @ 0-1A, -15V @ 0-1A | 30W | 85-264 @ 47-63 | 4.2x2.4x1.1 | 3.7x2.1x0.1 | 50 | 3.0 | 0.5 | 75 | UL/CUL/TUV/CE | 11.49 | 10.75 | |
| Triple Output | | | | | | | | | | | | | ★ Web Code: OFX | | |
| 2129676 | Elpac | MSM40D** | +5.1V @ 0-4A; +24V @ 0-1A; -12V @ 0.4A | 49.2W | 100-240 @ 50-60 | 5.0x3.0x1.1 | 4.6x2.5x0.2 | 50 | 5.0 | 5.0 | 70 | UL/CUL/CSA/CE | \$4.95 | \$4.49 | |
| 2210757 | Phihong | PSS-40-304 | +5V @ 0-4.5A; +15V @ 0-2A; -15V @ 0.5A | 60W | 100-240 @ 50-60 | 4.2x2.5x1.2 | 4.0x2.2x0.1 | 50; 150;150 | 3.0 | 3.0 | 70 | CUL/CE/NEMKO | 8.49 | 7.49 | |
| 88402 | Mean Well | PT-45B | +5V @ 0.4-3A; +12V @ 0.2-2A; -12V @ 0-0.3A | 42.6W | 90-264 @ 47-440 | 5.0x3.0x1.1 | 4.6x2.6x0.2 | 50; 120;100 | 3.0 | 1.0 | 75 | UL/CUL/TUV/CE | 13.95 | 12.49 | |
| 216734 | Mean Well | PT-65B | +5V @ 0.4-5.5A; +12V @ 0.2-2.5A -12V @ 0-0.5A | 63.5W | 90-264 @ 47-440 | 5.0x3.0x1.7 | 4.6x2.6x0.2 | 50; 120;100 | 3.0 | 1.0 | 77 | UL/CUL/TUV/CE | 15.25 | 14.49 | |
| 216726 | Mean Well | PT-65C | +5V @ 0.4-5.5A; +15V @ 0.2-2A; -15V @ 0-0.5A | 65W | 90-264 @ 47-440 | 5.0x3.0x1.7 | 4.6x2.6x0.2 | 50; 120;100 | 3.0 | 1.0 | 77 | UL/CUL/TUV/CE | 15.25 | 14.49 | |
| 215707 | Mean Well | PT-65D | +5V @ 0.5-5A; +12V @ 0.2-4A; +24V @ 0.2-1.3A | 104.2W | 90-264 @ 47-440 | 5.0x3.0x1.7 | 4.6x2.6x0.2 | 50; 100;200 | 2.0 | 1.0 | 79 | UL/CUL/TUV/CE | 15.25 | 14.49 | |

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SE-600

* 2.5-4.2V Web Code: ENT

* 5-9V Web Code: ENF

* 12-13.8V Web Code: ENW

* 15-20V Web Code: ENI

| | | | Output | | | Ripple & Noise | Load Reg. | Line Reg. | EFF | | | Pricing | |
|---------------|--------------|---------------|--|--------|---------------------|----------------|-----------|-----------|-------|-----|------------------|---------|--------|
| Part No. | Manufacturer | Mfr. Part No. | Voltage @ Current (min-max) | Power | Size (L" x W" x H") | (mV p-p)* | (±%)* | (±%)* | (%)\$ | PFC | Certification | 1 | 10 |
| Single Output | | | | | | | | | | | | | |
| 2106685 | Mean Well | RS-15-3.3 | +3.3V @ 0-3A | 9.9W | 2.5 x 2.0 x 1.1 | 80 | 2.0 | 0.5 | 72 | — | UL/CUL/TUV/CE/CB | \$7.95 | \$7.15 |
| 1919043 | Mean Well | RS-15-5 | +5V @ 0-3A | 15W | 2.5 x 2.0 x 1.1 | 80 | 1.5 | 0.5 | 77 | — | UL/CUL/TUV/CE/CB | 7.95 | 7.15 |
| 323282 | Mean Well | RS-25-5 | +5V @ 0-5A | 25W | 3.1 x 2.0 x 1.1 | 80 | 1.0 | 0.5 | 77 | — | UL/CUL/TUV/CE/CB | 10.25 | 8.95 |
| 323329 | Mean Well | RS-35-5 | +5V @ 0-7A | 35W | 3.9 x 3.2 x 1.4 | 80 | 1 | 0.5 | 77 | — | UL/CUL/TUV/CE | 12.95 | 11.95 |
| 323388 | Mean Well | RS-50-5 | +5V @ 0-10A | 50W | 3.9 x 3.8 x 1.4 | 80 | 1.0 | 0.5 | 78 | — | UL/CUL/TUV/CE/CB | 14.49 | 12.95 |
| 194791 | Mean Well | SP-100-5 | +5V @ 0-20A | 100W | 7.0 x 3.9 x 1.8 | 100 | 1.0 | 0.5 | 76 | ✓ | UL/CUL/TUV/CE/CB | 38.95 | 31.95 |
| 323821 | Mean Well | RS-150-5 | +5V @ 0-26A | 130W | 7.8 x 3.9 x 1.5 | 80 | 1.0 | 0.5 | 78 | — | UL/CUL/TUV/CE/CB | 23.95 | 20.95 |
| 123394 | Mean Well | S-150-5 | +5V @ 0-30A | 150W | 7.0 x 4.3 x 2.0 | 150 | 0.5 | 0.5 | 78 | — | UL/CUL/TUV/CE/CB | 34.95 | 31.95 |
| 201912 | Mean Well | SP-150-5 | +5V @ 0-30A | 150W | 7.0 x 3.9 x 2.0 | 100 | 1.0 | 0.5 | 75 | ✓ | UL/CUL/TUV/CE/CB | 42.95 | 37.95 |
| 202042 | Mean Well | SP-200-5 | +5V @ 0-40A | 200W | 7.0 x 3.9 x 2.0 | 100 | 1.0 | 0.5 | 71 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 42.95 |
| 244735 | Mean Well | SP-320-5 | +5V @ 0-55A at 230VAC; 0-44A at 115VAC | 275W | 8.5 x 4.5 x 2.0 | 150 | 1.0 | 0.5 | 79 | ✓ | UL/CUL/TUV/CE/CB | 62.95 | 47.95 |
| 2172068 | Mean Well | RSP-320-5 | +5V @ 0-60A | 300W | 8.5 x 4.5 x 1.2 | 150 | 1.0 | 0.5 | 85 | ✓ | UL/CUL/TUV/CB/CE | 47.95 | 40.95 |
| 2219794 | Mean Well | LRS-350-5 | +5V @ 0-60A | 300W | 8.5 x 4.5 x 1.2 | 150 | 2 | 0.5 | 83.5 | — | UL/CUL | 34.95 | 29.95 |
| 2149562 | Mean Well | SE-350-5 | +5V @ 0-60A | 300W | 8.5 x 4.5 x 2.0 | 150 | 2.0 | 0.5 | 78 | — | UL/CUL | 43.95 | 38.95 |
| 374002 | Mean Well | SE-600-5 | +5V @ 0-100A | 500W | 9.7 x 5.0 x 2.5 | 150 | 2.0 | 0.5 | 78 | — | UL/CUL | 75.95 | 66.95 |
| 394215 | Mean Well | SP-320-7.5 | +7.5V @ 0-40A | 300W | 8.5 x 4.5 x 2.0 | 150 | 1.0 | 0.5 | 83 | ✓ | UL/CUL/TUV/CE/CB | 62.95 | 47.95 |
| 1919051 | Mean Well | RS-15-12 | +12V @ 0-1.3A | 15.6W | 2.5 x 2.0 x 1.1 | 120 | 0.5 | 0.5 | 81 | — | UL/CUL/TUV/CE/CB | 7.95 | 7.15 |
| 323300 | Mean Well | RS-25-12 | +12V @ 0-2.1A | 25.2W | 3.0 x 2.0 x 1.1 | 120 | 0.5 | 0.5 | 79 | — | UL/CUL/TUV/CE/CB | 10.25 | 8.95 |
| 123255 | Mean Well | S-25-12 | +12V @ 0-2.1A | 25.2W | 3.9 x 3.8 x 1.4 | 100 | 0.5 | 0.5 | 76 | — | UL/TUV/CE | 18.95 | 16.95 |
| 323337 | Mean Well | RS-35-12 | +12V @ 0-3A | 36W | 3.9 x 3.2 x 1.4 | 120 | 0.5 | 0.5 | 81 | — | UL/CUL/TUV/CE/CB | 12.49 | 10.49 |
| 323396 | Mean Well | RS-50-12 | +12V @ 0-4.2A | 50.4W | 3.9 x 3.8 x 1.4 | 120 | 0.5 | 0.5 | 81 | — | UL/CUL/TUV/CE/CB | 13.95 | 11.95 |
| 123335 | Mean Well | S-60-12 | +12V @ 0-5A | 60W | 6.3 x 3.8 x 1.5 | 120 | 0.5 | 0.5 | 76 | — | UL/CUL/TUV/CE/CB | 24.95 | 22.49 |
| 323599 | Mean Well | RS-75-12 | +12V @ 0-6A | 72W | 5.1 x 3.9 x 1.5 | 120 | 0.5 | 0.5 | 81 | — | UL/CUL/TUV/CE/CB | 16.49 | 14.25 |
| 2105017 | Mean Well | NES-100-12 | +12V @ 0-8.5A | 102W | 6.3 x 3.8 x 1.5 | 120 | 0.5 | 0.5 | 83 | — | UL/CUL/CE/CB | 20.95 | 18.95 |
| 123386 | Mean Well | S-100F-12 | +12V @ 0-8.5A | 102W | 7.8 x 3.9 x 1.5 | 125 | 0.5 | 0.5 | 80 | — | UL/TUV/CE/CB | 27.95 | 25.95 |
| 323716 | Mean Well | RS-100-12 | +12V @ 0-8.5A | 102W | 6.3 x 3.8 x 1.5 | 120 | 0.5 | 0.5 | 81 | ✓ | UL/CUL/TUV/CE/CB | 22.95 | 20.95 |
| 194803 | Mean Well | SP-100-12 | +12V @ 0-8.5A | 102W | 7.0 x 3.9 x 1.8 | 100 | 0.5 | 0.5 | 80 | ✓ | UL/CUL/TUV/CE/CB | 38.95 | 31.95 |
| 2257723 | Mean Well | LRS-150-12 | +12V @ 0-12.5A | 150W | 6.0 x 3.8 x 1.2 | 150 | 0.5 | 0.5 | 87.5 | — | UL/CUL/TUV/CE | 19.95 | 17.49 |
| 2257782 | Mean Well | LRS-150F-12 | +12V @ 0-12.5A | 150W | 6.3 x 3.8 x 1.2 | 150 | 0.5 | 0.5 | 87.5 | — | UL/CUL/TUV/CE/CB | 22.49 | 18.95 |
| 323839 | Mean Well | RS-150-12 | +12V @ 0-12.5A | 150W | 7.8 x 3.9 x 1.5 | 120 | 0.5 | 0.5 | 83 | — | UL/CUL/TUV/CE/CB | 23.95 | 20.95 |
| 123423 | Mean Well | S-150-12 | +12V @ 0-12.5A | 150W | 7.0 x 4.3 x 2.0 | 180 | 0.3 | 0.3 | 82 | — | UL/CUL/TUV/CE/CB | 36.95 | 32.95 |
| 173421 | Mean Well | SP-150-12 | +12V @ 0-12.5A | 150W | 7.0 x 3.9 x 2.0 | 100 | 0.5 | 0.5 | 80 | ✓ | UL/CUL/TUV/CE/CB | 42.95 | 37.95 |
| 194774 | Mean Well | SP-200-12 | +12V @ 0-16.7A | 200.4W | 7.0 x 3.9 x 2.0 | 100 | 0.5 | 0.5 | 79 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 42.95 |
| 2219727 | Mean Well | LRS-200-12 | +12V @ 0-17A | 204W | 8.5 x 4.5 x 1.2 | 150 | 1 | 0.5 | 87.5 | — | UL/CUL | 26.95 | 22.49 |
| 2101497 | Mean Well | SP-240-12 | +12V @ 0-20A | 240W | 7.5 x 3.7 x 2.0 | 150 | 0.5 | 0.3 | 86 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 44.95 |
| 244743 | Mean Well | SP-320-12 | +12V @ 0-25A at 230VAC; 0-20A @ 115VAC | 300W | 8.5 x 4.5 x 2.0 | 150 | 0.5 | 0.3 | 86 | ✓ | UL/CUL/TUV/CE/CB | 62.95 | 47.95 |
| 2102203 | Mean Well | HRP-300-12 | +12V @ 0-27A | 324W | 7.8 x 4.1 x 1.6 | 120 | 0.5 | 0.3 | 88 | ✓ | UL/CUL/TUV/CE/CB | 71.95 | 60.95 |
| 2219807 | Mean Well | LRS-350-12 | +12V @ 0-29A | 348W | 8.5 x 4.5 x 1.2 | 150 | 1.0 | 0.5 | 85 | — | UL/CUL | 32.95 | 27.95 |
| 2149503 | Mean Well | SE-350-12 | +12V @ 0-29A | 348W | 8.5 x 4.5 x 2.0 | 150 | 1.0 | 0.5 | 83 | — | UL/CUL | 43.95 | 38.95 |
| 2094928 | Mean Well | SE-450-12 | +12V @ 0-37.5A | 450W | 8.9 x 4.9 x 2.0 | 200 | 1.0 | 0.5 | 83 | ✓ | UL/CUL | 61.95 | 54.95 |
| 374011 | Mean Well | SE-600-12 | +12V @ 0-50A | 600W | 9.7 x 5.0 x 2.5 | 150 | 0.5 | 0.5 | 83 | — | UL/CUL | 75.95 | 66.95 |
| 374214 | Mean Well | PSP-600-12 | +12V @ 0-50A | 600W | 6.7 x 4.7 x 3.7 | 240 | 0.5 | 0.5 | 84 | ✓ | UL/CUL/TUV/CE/CB | 125.95 | 111.95 |
| 2101542 | Mean Well | SE-1000-12 | +12V @ 0-83.3A | 999.6W | 10.9 x 5.0 x 2.5 | 150 | 0.5 | 0.5 | 85 | — | UL/CUL | 165.95 | 146.95 |
| 694911 | Mean Well | RSP-1500-12 | +12V @ 0-125A | 1500W | 10.9 x 5.0 x 3.3 | 150 | 0.5 | 0.5 | 87 | ✓ | EN/TUV/UL | 303.95 | 270.95 |
| 202025 | Mean Well | S-150-13.5 | +13.5V @ 0-11.2A | 151.2W | 7.0 x 4.3 x 2.0 | 180 | 0.3 | 0.3 | 77 | — | UL/CUL/TUV/CE/CB | 26.95 | 24.95 |
| 212410 | Mean Well | SP-200-13.5 | +13.5V @ 0-14.9A | 201.1W | 7.0 x 3.9 x 2.0 | 100 | 0.5 | 0.5 | 80 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 42.95 |
| 693599 | Mean Well | SP-320-13.5 | +13.5V @ 0-22A | 297W | 8.5 x 4.5 x 2.0 | 150 | 0.5 | 0.3 | 86 | ✓ | UL/CUL/TUV/CE/CB | 62.95 | 47.95 |
| 2106079 | Mean Well | PSP-600-13.5 | +13.5V @ 0-44.5A | 600W | 6.7 x 4.7 x 3.7 | 240 | 0.5 | 0.5 | 85 | ✓ | UL/CUL/TUV/CE/CB | 125.95 | 111.95 |
| 2105439 | Mean Well | AD-155A† | +13.8V @ 0-11.5A or 13.3V @ 0-0.5A | 145W | 7.8 x 4.3 x 2.0 | 150 | 0.5 | 0.5 | 80 | ✓ | UL/CUL/TUV/CE/CB | 46.95 | 42.95 |
| 323302 | Mean Well | RS-25-15 | +15V @ 0-1.7A | 25.5W | 3.0 x 2.0 x 1.1 | 120 | 0.5 | 0.5 | 82 | — | UL/CUL/TUV/CE/CB | 10.25 | 8.95 |
| 323345 | Mean Well | RS-35-15 | +15V @ 0-2.4A | 36W | 3.9 x 3.2 x 1.4 | 120 | 0.5 | 0.5 | 83 | — | UL/CUL/TUV/CE/CB | 12.49 | 10.95 |
| 323602 | Mean Well | RS-75-15 | +15V @ 0-5A | 75W | 5.1 x 3.9 x 1.5 | 120 | 0.5 | 0.5 | 82 | — | UL/CUL/TUV/CE/CB | 16.49 | 14.25 |

* Applies only to primary output

† UPS function

§ Efficiency

Enclosed Switching AC-to-DC Power Supplies

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Enclosed Switching AC-to-DC Power Supplies (Continued)

• 100% full-load burn-in test • Wide AC input range • Manufacturer warranty varies



RS-25



*15-20V Web Code: ENI

*24-30V Web Code: ENE

| Part No. | Manufacturer | Mfr. Part No. | Output | | Size (L" x W" x H") | Ripple & Noise (mV p-p)* | Load Reg. (±%)* | Line Reg. (±%)* | EFF (%)§ | PFC | Certification | Pricing | |
|---------------------------|--------------|---------------|-----------------------------------|---------|------------------------|--------------------------------|-----------------------|-----------------------|-------------|-----|------------------|---------|---------|
| | | | Voltage @ Current (min-max) | Power | | | | | | | | 1 | 10 |
| Single Output (Continued) | | | | | | | | | | | | | |
| 323724 | Mean Well | RS-100-15 | +15V @ 0-7A | 105W | 6.3 x 3.8 x 1.5 | 120 | 0.5 | 0.5 | 82 | — | UL/CUL/TUV/CE/CB | \$22.95 | \$19.95 |
| 323847 | Mean Well | RS-150-15 | +15V @ 0-10A | 150W | 7.8 x 3.9 x 1.5 | 120 | 0.5 | 0.5 | 84 | — | UL/CUL/TUV/CE/CB | 23.95 | 20.95 |
| 123432 | Mean Well | S-150-15 | +15V @ 0-10A | 150W | 7.0 x 4.3 x 2.0 | 180 | 0.3 | 0.3 | 85 | — | UL/CUL/TUV/CE/CB | 36.95 | 32.95 |
| 173412 | Mean Well | SP-150-15 | +15V @ 0-10A | 150W | 7.0 x 3.9 x 2.0 | 100 | 0.5 | 0.5 | 86.5 | ✓ | UL/CUL/TUV/CE/CB | 42.95 | 37.95 |
| 202060 | Mean Well | SP-200-15 | +15V @ 0-13.4A | 201W | 7.0 x 3.9 x 2.0 | 100 | 0.5 | 0.5 | 81 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 42.95 |
| 693610 | Mean Well | SP-320-15 | +15V @ 0-20A | 300W | 8.5 x 4.5 x 2.0 | 150 | 0.5 | 0.3 | 86 | ✓ | UL/CUL/TUV/CE/CB | 62.95 | 47.95 |
| 2219815 | Mean Well | LRS-350-15 | +15V @ 0-23.2A | 348W | 8.5 x 4.5 x 1.2 | 150 | 0.5 | 0.5 | 86 | — | UL/CUL | 32.95 | 27.95 |
| 291522 | Mean Well | SE-600-15 | +15V @ 0-40A | 600W | 9.7 x 5.0 x 2.5 | 150 | 0.5 | 0.5 | 84 | — | UL/CUL | 75.95 | 66.95 |
| 694920 | Mean Well | RSP-1500-15 | +15V @ 0-100A | 1500W | 10.9 x 5.0 x 3.3 | 150 | 0.5 | 0.5 | 87 | ✓ | UL/CUL/TUV/CE/CB | 303.95 | 270.95 |
| 1919078 | Mean Well | RS-15-24 | +24V @ 0-0.625A | 15W | 2.5 x 2.0 x 1.1 | 200 | 0.5 | 0.5 | 82 | — | UL/CUL/TUV/CE/CB | 7.95 | 7.15 |
| 323311 | Mean Well | RS-25-24 | +24V @ 0-1.1A | 26.4W | 3.0 x 2.0 x 1.1 | 120 | 0.5 | 0.5 | 84 | — | UL/CUL/TUV/CE/CB | 10.25 | 8.95 |
| 123272 | Mean Well | S-25-24 | +24V @ 0-1.1A | 26.4W | 3.9 x 3.8 x 1.4 | 100 | 0.5 | 0.5 | 80 | — | UL/TUV/CE | 18.95 | 16.95 |
| 323353 | Mean Well | RS-35-24 | +24V @ 0-1.5A | 36W | 3.9 x 3.2 x 1.4 | 120 | 0.5 | 0.5 | 84 | — | UL/CUL/TUV/CE/CB | 11.49 | 10.49 |
| 123319 | Mean Well | S-40-24 | +24V @ 0-1.8A | 43W | 5.1 x 3.9 x 1.5 | 100 | 0.5 | 0.5 | 78 | — | UL/CUL/TUV/CE/CB | 19.95 | 18.95 |
| 323417 | Mean Well | RS-50-24 | +24V @ 0-2.2A | 52.8W | 3.9 x 3.8 x 1.4 | 120 | 0.5 | 0.5 | 84 | — | UL/CUL/TUV/CE/CB | 14.49 | 12.95 |
| 123352 | Mean Well | S-60-24 | +24V @ 0-2.5A | 60W | 6.3 x 3.8 x 1.5 | 150 | 0.5 | 0.5 | 79 | — | UL/CUL/TUV/CE/CB | 24.95 | 22.49 |
| 323620 | Mean Well | RS-75-24 | +24V @ 0-3.2A | 76.8W | 5.1 x 3.9 x 1.5 | 120 | 0.5 | 0.5 | 85 | — | UL/CUL/TUV/CE/CB | 16.49 | 14.25 |
| 323732 | Mean Well | RS-100-24 | +24V @ 0-4.5A | 108W | 6.3 x 3.8 x 1.5 | 120 | 0.5 | 0.5 | 84 | — | UL/CUL/TUV/CE/CB | 23.95 | 21.95 |
| 201971 | Mean Well | S-100F-24 | +24V @ 0-4.5A | 108W | 7.8 x 3.9 x 1.5 | 150 | 0.5 | 0.5 | 83 | — | UL/TUV/CE/CB | 29.95 | 27.95 |
| 173404 | Mean Well | SP-150-24 | +24V @ 0-6.25A | 150W | 7.0 x 3.9 x 2.0 | 150 | 0.5 | 0.5 | 83 | ✓ | UL/CUL/TUV/CE/CB | 42.95 | 37.95 |
| 2257740 | Mean Well | LRS-150-24 | +24V @ 0-6.5A | 156W | 6.0 x 3.8 x 1.2 | 200 | 0.5 | 0.5 | 89 | — | UL/CUL/TUV/CE | 18.95 | 15.95 |
| 2257803 | Mean Well | LRS-150F-24 | +24V @ 0-6.5A | 156W | 6.3 x 3.8 x 1.2 | 200 | 0.5 | 0.5 | 89 | — | UL/CUL/TUV/CE/CB | 21.49 | 17.95 |
| 323855 | Mean Well | RS-150-24 | +24V @ 0-6.5A | 156W | 7.8 x 3.9 x 1.5 | 120 | 0.5 | 0.5 | 86 | — | UL/CUL/TUV/CE/CB | 24.95 | 22.49 |
| 123450 | Mean Well | S-150-24 | +24V @ 0-6.5A | 156W | 7.0 x 4.3 x 2.0 | 240 | 0.2 | 0.2 | 85 | — | UL/CUL/TUV/CE/CB | 36.95 | 32.95 |
| 2094864 | Mean Well | HRPG-150-24 | +24V @ 0-6.5A | 156W | 6.3 x 3.8 x 1.5 | 150 | 0.5 | 0.3 | 87 | ✓ | UL/CUL/TUV/CE/CB | 51.95 | 45.95 |
| 194782 | Mean Well | SP-200-24 | +24V @ 0-8.4A | 201.6W | 7.0 x 3.9 x 2.0 | 150 | 0.5 | 0.5 | 83 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 42.95 |
| 2101518 | Mean Well | SP-240-24 | +24V @ 0-10A | 240W | 7.5 x 3.7 x 2.0 | 150 | 0.5 | 0.2 | 87 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 44.95 |
| 196657 | Mean Well | S-320-24 | +24V @ 0-12.5A | 300W | 8.5 x 4.5 x 2.0 | 150 | 0.5 | 0.5 | 86 | — | UL/CUL | 64.95 | 59.95 |
| 244752 | Mean Well | SP-320-24 | +24V @ 0-13A | 312W | 8.5 x 4.5 x 2.0 | 150 | 0.5 | 0.2 | 87 | ✓ | UL/CUL/TUV/CE/CB | 62.95 | 47.95 |
| 2102220 | Mean Well | HRP-300-24 | +24V @ 0-14A | 336W | 7.7 x 4.1 x 1.6 | 150 | 0.5 | 0.2 | 87 | ✓ | UL/CUL/TUV/CE/CB | 71.95 | 60.95 |
| 2094881 | Mean Well | HRPG-300-24 | +24V @ 0-14A | 336W | 7.8 x 4.1 x 1.6 | 150 | 0.5 | 0.3 | 87 | ✓ | UL/CUL/TUV/CE/CB | 81.95 | 72.95 |
| 2219823 | Mean Well | LRS-350-24 | +24V @ 0-14.6A | 350.4W | 8.5 x 4.5 x 1.2 | 150 | 0.5 | 0.5 | 88 | — | UL/CUL | 31.95 | 26.95 |
| 2146564 | Mean Well | SE-350-24 | +24V @ 0-14.6A | 350.4W | 8.5 x 4.5 x 2.0 | 150 | 0.5 | 0.5 | 87 | — | UL/CUL | 43.95 | 38.95 |
| 2101606 | Mean Well | SE-450-24 | +24V @ 0-18.8A | 451.2W | 8.9 x 4.9 x 2.0 | 200 | 0.5 | 0.2 | 86 | — | UL/CUL | 61.95 | 54.95 |
| 2122335 | Mean Well | HRP-450-24 | +24V @ 0-18.8A | 451.2W | 8.6 x 4.1 x 1.6 | 150 | 0.5 | 0.2 | 88 | ✓ | UL/CUL/TUV/CE/CB | 110.95 | 93.95 |
| 301322 | Mean Well | SP-480-24 | +24V @ 0-20A | 480W | 10.9 x 5.0 x 1.7 | 150 | 0.5 | 0.2 | 87 | ✓ | UL/CUL/TUV/CE/CB | 136.95 | 115.95 |
| 147054 | Mean Well | SP-500-24 | +24V @ 0-20A | 480W | 6.7 x 4.7 x 3.7 | 240 | 0.5 | 0.5 | 85.5 | ✓ | UL/CUL/TUV/CE/CB | 152.95 | 134.95 |
| 2197994 | Mean Well | RSP-500-24 | +24V @ 0-21A | 504W | 9.1 x 5.0 x 1.6 | 150 | 0.5 | 0.2 | 89 | ✓ | UL/CUL/TUV/CE/CB | 88.95 | 77.95 |
| 295902 | Mean Well | SE-600-24 | +24V @ 0-25A | 600W | 9.7 x 5.0 x 2.5 | 150 | 0.5 | 0.5 | 87 | — | UL/CUL | 75.95 | 66.95 |
| 374231 | Mean Well | PSP-600-24 | +24V @ 0-25A | 600W | 6.7 x 4.7 x 3.7 | 240 | 0.5 | 0.5 | 86 | ✓ | UL/CUL/TUV/CE/CB | 125.95 | 111.95 |
| 2100961 | Mean Well | HRP-600-24 | +24V @ 0-27A | 648W | 8.6 x 4.1 x 2.5 | 150 | 0.5 | 0.2 | 88 | ✓ | UL/CUL/TUV/CE/CB | 114.95 | 101.95 |
| 2204787 | Mean Well | MSP-600-24** | +24V @ 0-27A | 648W | 8.6 x 4.1 x 2.5 | 150 | 0.5 | 0.2 | 88 | ✓ | UL/CUL/CB/CE | 153.95 | 129.95 |
| 2172121 | Mean Well | RSP-750-24 | +24V @ 0-31.3A | 751.2W | 9.8 x 5.0 x 1.6 | 150 | 0.5 | 0.5 | 90.5 | ✓ | EN/TUV/UL | 168.95 | 142.95 |
| 320048 | Mean Well | SP-750-24 | +24V @ 0-31.3A | 751.2W | 10.9 x 5.0 x 2.5 | 120 | 0.5 | 0.2 | 89 | ✓ | UL/CUL/TUV/CE/CB | 204.95 | 179.95 |
| 1585717 | Mean Well | RSP-1000-24 | +24V @ 0-40A | 960W | 11.6 x 5.0 x 1.6 | 150 | 0.5 | 0.5 | 88 | ✓ | UL/CUL/TUV/CE/CB | 206.95 | 175.95 |
| 2101569 | Mean Well | SE-1000-24 | +24V @ 0-41.7A | 1000.8W | 10.9 x 5.0 x 2.5 | 200 | 0.5 | 0.5 | 88 | — | UL/CUL | 165.95 | 146.95 |
| 694938 | Mean Well | RSP-1500-24 | +24V @ 0-63A | 1512W | 10.9 x 5.0 x 3.3 | 150 | 0.5 | 0.5 | 90 | ✓ | UL/CUL/TUV/CE/CB | 303.95 | 270.95 |
| 693513 | Mean Well | SP-150-27 | +27V @ 0-5.6A | 151.2W | 7.8 x 3.9 x 2.0 | 15 | 0.5 | 0.5 | 84 | — | UL/CUL/CE/CB/PFC | 42.95 | 37.95 |
| 693548 | Mean Well | SP-200-27 | +27V @ 0-7.5A | 202.5W | 7.0 x 3.9 x 2.0 | 150 | 0.5 | 0.5 | 83 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 42.95 |
| 693628 | Mean Well | SP-320-27 | +27V @ 0-11.7A | 315.9W | 8.5 x 4.5 x 2.0 | 200 | 0.5 | 0.2 | 88 | ✓ | UL/CUL/TUV/CE/CB | 62.95 | 47.95 |
| 2149520 | Mean Well | SE-350-27 | +27V @ 0-13A | 351W | 8.5 x 4.5 x 3.3 | 200 | 0.5 | 0.5 | 88 | — | UL/CUL | 43.95 | 38.95 |
| 190706 | Mean Well | SP-500-27 | +27V @ 0-18A | 486W | 6.7 x 4.7 x 3.7 | 200 | 0.5 | 0.5 | 86.5 | ✓ | UL/CUL/TUV/CE/CB | 152.95 | 134.95 |
| 295911 | Mean Well | SE-600-27 | +27V @ 0-22.2A | 599.4W | 9.7 x 5.0 x 2.5 | 150 | 0.5 | 0.5 | 87 | — | UL/CUL | 75.95 | 66.95 |
| 374257 | Mean Well | PSP-600-27 | +27V @ 0-22.2A | 599.4W | 6.7 x 4.7 x 3.7 | 240 | 0.5 | 0.5 | 86 | ✓ | UL/CUL/TUV/CE/CB | 125.95 | 111.95 |
| 1585709 | Mean Well | RSP-1000-27 | +27V @ 0-37.0A | 999W | 11.6 x 5.0 x 1.6 | 150 | 0.5 | 0.5 | 88 | ✓ | UL/CUL/TUV/CE/CB | 206.95 | 175.95 |
| 694946 | Mean Well | RSP-1500-27 | +27V @ 0-56A | 1512W | 10.9 x 5.0 x 3.3 | 150 | 0.5 | 0.5 | 90 | ✓ | UL/CUL/TUV/CE/CB | 303.95 | 270.95 |
| 2146118 | Mean Well | AD-155B | +27.6V @ 0-5.5A or 27.1V @ 0-0.5A | 152W | 7.8 x 4.3 x 2.0 | 150 | 0.5 | 0.5 | 84 | — | UL/CUL/TUV/CE/CB | 46.95 | 42.95 |
| 2102473 | Mean Well | SP-240-30 | +30V @ 0-8A | 240W | 7.5 x 3.7 x 2.0 | 150 | 0.5 | 0.2 | 88 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 44.95 |

*Applies only to primary output

**Medical rated

§ Efficiency

Continued on next page

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- Wide AC input range
- Manufacturer warranty varies



SP-200



* 36-54V Web Code: ENH

* Multiple Output WC: ENM

| Part No. | Manufacturer | Mfr. Part No. | Output | | Size (L" x W" x H") | Ripple & Noise (mV p-p) * | Load Reg. (±%) * | Line Reg. (±%) * | EFF (%) § | PFC | Certification | Pricing | |
|---------------------------|--------------|---------------|---|--------|------------------------|------------------------------|---------------------|---------------------|--------------|-----|------------------|---------|---------|
| | | | Voltage @ Current (min-max) | Power | | | | | | | | 1 | 10 |
| Single Output (Continued) | | | | | | | | | | | | | |
| 2102730 | Mean Well | SP-320-36 | +36V @ 0-8.8A | 316.8W | 8.5 x 4.5 x 2.0 | 220 | 0.5 | 0.2 | 87 | ✓ | UL/CUL/TUV/CE/CB | \$62.95 | \$47.95 |
| 693206 | Mean Well | RS-25-48 | +48V @ 0-0.57A | 27.4W | 3.1 x 2.0 x 1.1 | 200 | 0.5 | 0.5 | 85 | — | UL/CUL/TUV/CE/CB | 10.25 | 8.95 |
| 693290 | Mean Well | RS-100-48 | +48V @ 0-2.3A | 110.4W | 6.3 x 3.8 x 1.5 | 200 | 0.5 | 0.5 | 84 | — | UL/CUL/TUV/CE/CB | 23.95 | 21.95 |
| 201930 | Mean Well | SP-150-48 | +48V @ 0-3.2A | 153.6W | 7.0 x 3.9 x 2.0 | 250 | 0.5 | 0.5 | 83 | ✓ | UL/CUL/TUV/CE/CB | 42.95 | 37.95 |
| 323863 | Mean Well | RS-150-48 | +48V @ 0-3.3A | 158.4W | 7.8 x 3.9 x 1.5 | 200 | 0.5 | 0.5 | 87 | — | UL/CUL/TUV/CE/CB | 24.95 | 22.49 |
| 202068 | Mean Well | SP-200-48 | +48V @ 0-4.2A | 201.6W | 7.0 x 3.9 x 2.0 | 250 | 0.5 | 0.5 | 84 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 42.95 |
| 2102481 | Mean Well | SP-240-48 | +48V @ 0-5A | 240W | 7.5 x 3.7 x 2.0 | 150 | 0.5 | 0.2 | 89 | ✓ | UL/CUL/TUV/CE/CB | 49.95 | 42.95 |
| 2229466 | Arndt | SP-300-48 | +48V @ 0-6.25A | 300W | 8.1 x 4.5 x 2.0 | 240 | 0.5 | 0.2 | 85 | ✓ | UL/CUL/TUV/CE | 39.95 | 35.95 |
| 244770 | Mean Well | SP-320-48 | +48V @ 0-6.7A | 321.6W | 8.5 x 4.5 x 2.0 | 240 | 0.5 | 0.2 | 89 | ✓ | UL/CUL/TUV/CE/CB | 62.95 | 47.95 |
| 2219840 | Mean Well | LRS-350-48 | +48V @ 0-7.3A | 350W | 8.5 x 4.5 x 1.2 | 200 | 0.5 | 0.5 | 89 | — | UL/CUL | 32.95 | 27.95 |
| 2149554 | Mean Well | SE-350-48 | +48V @ 0-7.3A | 350W | 8.5 x 4.5 x 2.0 | 240 | 0.5 | 0.5 | 87.5 | — | UL/CUL | 43.95 | 38.95 |
| 2105164 | Mean Well | SE-450-48 | +48V @ 0-9.4A | 451.2W | 8.9 x 4.9 x 2.0 | 200 | 0.5 | 0.2 | 88 | — | UL/CUL | 61.95 | 54.95 |
| 301402 | Mean Well | SP-480-48 | +48V @ 0-11A | 528W | 10.9 x 5.0 x 1.7 | 240 | 0.5 | 0.2 | 89 | ✓ | UL/CUL/TUV/CE/CB | 136.95 | 115.95 |
| 161796 | Mean Well | SP-500-48 | +48V @ 0-10A | 480W | 6.7 x 4.7 x 3.7 | 300 | 0.5 | 0.5 | 87 | ✓ | UL/CUL/TUV/CE/CB | 152.95 | 134.95 |
| 295929 | Mean Well | SE-600-48 | +48V @ 0-12.5A | 600W | 9.7 x 5.0 x 2.5 | 200 | 0.5 | 0.5 | 88 | — | UL/CUL | 75.95 | 66.95 |
| 374249 | Mean Well | PSP-600-48 | +48V @ 0-12.5A | 600W | 6.7 x 4.7 x 3.7 | 240 | 0.5 | 0.5 | 87 | ✓ | UL/CUL/TUV/CE/CB | 125.95 | 111.95 |
| 2101577 | Mean Well | SE-1000-48 | +48V @ 0-20.8A | 998.4W | 10.9 x 5.0 x 2.5 | 200 | 0.5 | 0.5 | 89 | — | UL/CUL | 165.95 | 146.95 |
| 1585725 | Mean Well | RSP-1000-48 | +48V @ 0-21.0A | 1008W | 11.6 x 5.0 x 1.6 | 150 | 0.5 | 0.5 | 90 | ✓ | UL/CUL/TUV/CE/CB | 206.95 | 175.95 |
| 694954 | Mean Well | RSP-1500-48 | +48V @ 0-32.0A | 1536W | 10.9 x 5.0 x 3.3 | 200 | 0.5 | 0.5 | 91 | ✓ | UL/CUL/TUV/CE/CB | 303.95 | 270.95 |
| 2108921 | Mean Well | RSP-3000-48 | +48V @ 0-62.5A | 3000W | 10.9 x 7.0 x 2.5 | 200 | 0.5 | 0.5 | 90.5 | ✓ | UL/CUL/TUV/CE/CB | 417.95 | 407.95 |
| Double Output | | | | | | | | | | | | | |
| 323362 | Mean Well | RD-35A | +5V @ 0.3-4A; +12V @ 0.2-1A | 32W | 3.9 x 3.2 x 1.4 | 80 | 0.5 | 0.5 | 79 | — | UL/CUL/TUV/CE/CB | \$13.49 | \$12.95 |
| 323380 | Mean Well | RD-35B | +5V @ 0.3-4A; +24V @ 0.2-1.3A | 51.2W | 3.9 x 3.2 x 1.4 | 80 | 0.5 | 0.5 | 82 | — | UL/CUL/TUV/CE/CB | 13.49 | 12.95 |
| 323425 | Mean Well | RD-50A | +5V @ 0.3-6A; +12V @ 0.3-3A | 54W | 3.9 x 3.8 x 1.4 | 80 | 0.5 | 0.5 | 79 | — | UL/CUL/TUV/CE/CB | 14.49 | 12.95 |
| 323433 | Mean Well | RD-50B | +5V @ 0.3-6A; +24V @ 0.2-2A | 54W | 3.9 x 3.8 x 1.4 | 80 | 0.5 | 0.5 | 80 | — | UL/CUL/TUV/CE/CB | 14.49 | 12.95 |
| 323505 | Mean Well | RD-65A | +5V @ 0.3-8A; +12V @ 0.2-4A | 66W | 5.1 x 3.9 x 1.5 | 80 | 0.5 | 0.5 | 79 | — | UL/CUL/TUV/CE/CB | 15.95 | 14.49 |
| 323513 | Mean Well | RD-65B | +5V @ 0.3-8A; +24V @ 0.2-3A | 68W | 5.1 x 3.9 x 1.5 | 80 | 0.5 | 0.5 | 78 | — | UL/CUL/TUV/CE/CB | 15.95 | 14.49 |
| 132397 | Mean Well | D-120B | +5V @ 2.0-6A; +24V @ 0.4-4A | 126W | 7.0 x 3.9 x 2.0 | 60 | 0.5 | 0.5 | 78 | — | UL/CUL/TUV/CE/CB | 39.95 | 36.95 |
| 323741 | Mean Well | RD-125A | +5V @ 2.0-15A; +12V @ 0.5-10A | 130.9W | 7.8 x 3.9 x 1.5 | 80 | 3.0 | 1.0 | 82 | — | UL/CUL/TUV/CE/CB | 24.95 | 22.95 |
| 2106124 | Mean Well | RD-125-1224 | +12V @ 1.0-3.7A; +24V @ 0.4-3.7A | 133.2W | 7.8 x 3.9 x 1.5 | 120 | 1.0 | 0.5 | 85 | — | UL/CUL/TUV/CE/CB | 24.95 | 22.95 |
| 323759 | Mean Well | RD-125B | +5V @ 2.0-10A; +24V @ 0.4-5A | 133.4W | 7.8 x 3.9 x 1.5 | 80 | 3.0 | 1.0 | 82 | — | UL/CUL/TUV/CE/CB | 24.95 | 22.95 |
| Triple Output | | | | | | | | | | | | | |
| 323460 | Mean Well | RT-50B | +5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0.1-1A | 50W | 3.9 x 3.8 x 1.4 | 80 | 1.0 | 0.5 | 77 | — | UL/CUL/TUV/CE/CB | \$15.95 | \$14.95 |
| 323468 | Mean Well | RT-50C | +5V @ 0-5A; +15V @ 0.2-2A; -15V @ 0.1-1A | 50W | 3.9 x 3.8 x 1.4 | 80 | 1.0 | 0.5 | 78 | — | UL/CUL/TUV/CE/CB | 15.95 | 14.95 |
| 323476 | Mean Well | RT-50D | +5V @ 0.5-5A; +12V @ 0.1-1A; +24V @ 0.2-1.5A | 51W | 3.9 x 3.8 x 1.4 | 80 | 1.0 | 0.5 | 80 | — | UL/CUL/TUV/CE/CB | 15.95 | 14.95 |
| 123482 | Mean Well | T-60B | +5V @ 0.5-5A; +12V @ 0.2-2.5A; -12V @ 0-0.5A | 61W | 6.3 x 3.8 x 1.5 | 100 | 1.0 | 0.5 | 72 | — | UL/CUL/TUV/CE/CB | 29.95 | 26.95 |
| 323540 | Mean Well | RT-65B | +5V @ 0.5-8A; +12V @ 0.2-3.5A; -12V @ 0-1A | 64.6W | 5.1 x 3.9 x 1.5 | 80 | 1.0 | 0.5 | 77 | — | UL/CUL/TUV/CE/CB | 17.49 | 16.49 |
| 323548 | Mean Well | RT-65C | +5V @ 0.5-8A; +15V @ 0.2-3A; -15V @ 0-1A | 65.5W | 5.1 x 3.9 x 1.5 | 80 | 1.0 | 0.5 | 78 | — | UL/CUL/TUV/CE/CB | 17.49 | 16.49 |
| 323555 | Mean Well | RT-65D | +5V @ 0.5-8A; +12V @ 0.1-1A; +24V @ 0.2-2A | 68W | 5.1 x 3.9 x 1.5 | 80 | 1.0 | 0.5 | 79 | — | UL/CUL/TUV/CE/CB | 17.49 | 16.49 |
| 323775 | Mean Well | RT-125B | +5V @ 2-15A; +12V @ 0.5-6A; -12V @ 0.1-1A | 132W | 7.8 x 3.9 x 1.5 | 80 | 1.0 | 0.5 | 80 | — | UL/CUL/TUV/CE/CB | 28.95 | 26.95 |
| 323783 | Mean Well | RT-125C | +5V @ 2-15A; +15V @ 0.5-6A; -15V @ 0.1-1A | 132.5W | 7.8 x 3.9 x 1.5 | 80 | 1.0 | 0.5 | 81 | — | UL/CUL/TUV/CE/CB | 28.95 | 26.95 |
| 323792 | Mean Well | RT-125D | +5V @ 2-15A; +12V @ 0.1-2A; +24V @ 0.4-4A | 136W | 7.8 x 3.9 x 1.5 | 80 | 1.0 | 0.5 | 82 | — | UL/CUL/TUV/CE/CB | 28.95 | 26.95 |
| Quad Output | | | | | | | | | | | | | |
| 323484 | Mean Well | RQ-50B | +5V @ 0.5-6A; +12V @ 0.2-1.5A; -5V @ 0-1A; -12V @ 0-1A | 45.5W | 3.9 x 3.8 x 1.4 | 80 | 0.5 | 0.5 | 74 | — | UL/CUL/TUV/CE/CB | \$19.95 | \$17.95 |
| 323564 | Mean Well | RQ-65B | +5V @ 0.5-8A; +12V @ 0.2-3A; -5V @ 0.1-1.5A; -12V @ 0-1A | 62.5W | 5.1 x 3.9 x 1.5 | 80 | 0.5 | 0.5 | 76 | — | UL/CUL/TUV/CE/CB | 18.49 | 17.49 |
| 323572 | Mean Well | RQ-65D | +5V @ 0.5-8A; +12V @ 0.2-3A; +24V @ 0.1-1.5A; -12V @ 0-1A | 68W | 5.1 x 3.9 x 1.5 | 80 | 0.5 | 0.5 | 78 | — | UL/CUL/TUV/CE/CB | 18.49 | 17.49 |
| 323812 | Mean Well | RQ-125D | +5V @ 2-12A; +12V @ 0.5-4A; +24V @ 0.1-2.5A; -12V @ 0-1A | 124W | 7.8 x 3.9 x 1.5 | 80 | 1.0 | 0.5 | 82 | — | UL/CUL/TUV/CE/CB | 28.95 | 26.95 |
| 213648 | Mean Well | QP-150F | +5V @ 3-15A; +15V @ 0-5A; +24V @ 0.4-3A; -15V @ 0-1A | 152W | 7.8 x 3.9 x 1.5 | 120 | 2.0 | 1.0 | 78 | ✓ | UL/CUL/TUV/CE/CB | 86.95 | 79.95 |
| 213752 | Mean Well | QP-200D | +5V @ 3-20A; +12V @ 0-6A; +24V @ 0.4-5A; -12V @ 0-1A | 204.9W | 7.8 x 3.9 x 2.0 | 100 | 2.0 | 1.0 | 75 | ✓ | UL/CUL/TUV/CE/CB | 99.95 | 89.95 |
| 668764 | Mean Well | QP-320D | +5V @ 2.5-20A; +12V @ 0-10A; +24V @ 0.2-5A; -12V @ 0.2-2A | 316W | 8.5 x 4.5 x 2.0 | 100 | 2.0 | 1.0 | 83 | ✓ | UL/CUL/TUV/CE | 103.95 | 98.95 |

* Applies only to primary output

§ Efficiency

LED Enclosed Power Supplies

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LED Enclosed Power Supplies For Indoor and Outdoor Applications

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- Cooling by free air convection
- UL1310 class 2 power unit
- Short-circuit/overload/overvoltage/overtemperature protection
- Universal AC input/full range



CLG Series

| FEATURES | Series | | | | | | |
|----------------------|-----------|-----------|-----------------|-----------|-----------|-----------|-----------|
| | APV | CLG | ELN/LPC/LPV/PLN | HLG | LPF | PLC | PLP |
| Case | Plastic | Metal | Plastic | Metal | Plastic | Plastic | Plastic |
| Working Temp. (°C) | -30 to 70 | -30 to 70 | -30 to 50 | -30 to 70 | -35 to 70 | -30 to 50 | -30 to 60 |
| Voltage (CV or AV) § | CV | AV | CV | AV | CV | AV | CV |
| Current (CC or AC) § | AC | AC | CC | CC | CC | AC | CC |
| Inrush Curr. (A/VAC) | 70/230 | 40/230 | 40/230 | 75/230 | 45/230 | 40/230 | 40/230 |
| PFC Function | — | ✓ | — | ✓ | ✓ | ✓ | ✓ |
| Warranty | 2 Year | 3 Year | 2 Year | 7 Year | 5 Year | 2 Year | 2 Year |

§ CV: constant voltage; AV: adjustable voltage; CC: constant current; AC: adjustable current

* 2-14.5V Web Code: LTW

* 15-23V Web Code: LTF

* 24-35V Web Code: LTR

* 36-45.6V Web Code: LTS

* 48-216V Web Code: LFE



| Part No. | Manufacturer | Mfr. Part No. | Output | | Input Voltage (VAC @ Hz) | Size (L" x W" x H") | Enclosure Rating | Load Reg. (±%) | Line Reg. (±%) | Certification | Pricing | |
|----------|--------------|-----------------|-----------------------------|-----------|--------------------------|---------------------|------------------|----------------|----------------|-----------------------|---------|---------|
| | | | Voltage @ Current (min-max) | Power (W) | | | | | | | 1 | 10 |
| 2101315 | Mean Well | LPC-60-1400 | +9-42V @ 0-1.4A | 59.5 | 90-264 @ 47-63 | 6.4 x 1.7 x 1.3 | IP67 | 2.0 | 1.0 | EN/PTUV/UL | \$14.75 | \$12.49 |
| 2142061 | Mean Well | APV-12-12 | +12V @ 0-1A | 12 | 90-264 @ 47-63 | 3.0 x 1.6 x 1.1 | — | 2.0 | 1.0 | CE | 5.49 | 5.19 |
| 2102596 | Mean Well | LPV-20-12 | +12V @ 0-1.67A | 20 | 90-264 @ 47-63 | 4.6 x 1.4 x 1.0 | IP67 | 2.0 | 1.0 | UL/CUL/TUV/CSA/CE | 9.19 | 7.75 |
| 2103142 | Mean Well | LPV-35-12 | +12V @ 0-3A | 36 | 90-264 @ 47-63 | 5.8 x 1.6 x 1.2 | IP67 | 2.0 | 1.0 | UL/CUL/TUV/CSA/CE | 12.95 | 10.95 |
| 2103169 | Mean Well | LPV-60-12 | +12V @ 0-5A | 60 | 90-264 @ 47-63 | 6.4 x 1.7 x 1.3 | IP67 | 2.0 | 1.0 | UL/CUL/TUV/CSA/CE | 14.49 | 11.75 |
| 1918913 | Mean Well | PLN-60-12 | +12V @ 0-5A | 60 | 90-295 @ 47-63 | 7.1 x 2.4 x 1.4 | IP64 | 5.0 | 3.0 | UL/CUL/TUV/CE/PFC | 30.95 | 26.95 |
| 1585805 | Mean Well | CLG-100-12 | +12V @ 0-5A | 60 | 90-295 @ 47-63 | 8.7 x 2.7 x 1.5 | IP67 | 2.0 | 1.0 | UL/CUL/TUV/CSA/CE/PFC | 45.95 | 38.95 |
| 2133131 | Mean Well | LPV-100-12 | +12V @ 0-8.5A | 102 | 90-264 @ 47-63 | 7.5 x 2.0 x 1.5 | IP67 | 2 | 1.0 | CE | 24.29 | 20.49 |
| 2148105 | Mean Well | HLG-120H-12B | +12V @ 0-10A | 120 | 90-305 @ 47-63 | 8.7 x 2.7 x 1.5 | IP67 | 2.0 | 0.5 | UL/CUL/TUV/CE/PFC | 46.95 | 39.95 |
| 2215259 | Mean Well | LPV-150-12 | +12V @ 0-10A | 120 | 180-305 @ 47-63 | 7.5 x 2.5 x 1.5 | IP67 | 2.0 | 1.0 | UL/CUL/CE | 32.95 | 27.95 |
| 1954877 | Mean Well | CLG-150-12A | +12V @ 0-11A | 132 | 90-295 @ 47-63 | 8.7 x 2.7 x 1.5 | IP65 | 1.0 | 0.5 | UL/TUV/CE | 46.95 | 39.95 |
| 2108699 | Mean Well | CLG-150-12† | +12V @ 0-11A | 132 | 90-295 @ 47-63 | 8.7 x 2.7 x 1.5 | IP67 | 1.0 | 0.5 | UL/CUL/TUV/CE/PFC | 46.95 | 39.95 |
| 2137609 | Mean Well | HLG-150H-12A | +12V @ 0-12.5A | 150 | 90-305 @ 47-63 | 9.0 x 2.7 x 1.5 | IP65 | 2.0 | 0.5 | UL/CSA/EN/IP/TUV | 47.95 | 39.95 |
| 2102158 | Mean Well | HLG-240H-12A | +12V @ 0-16A | 192 | 90-305 @ 47-63 | 9.6 x 2.7 x 1.5 | IP65 | 2.0 | 0.5 | UL/TUV/EN/IP | 66.95 | 56.95 |
| 2141780 | Mean Well | HLG-320H-12A | +12V @ 0-22A | 264 | 90-305 @ 47-63 | 9.9 x 3.5 x 1.7 | IP65 | 2.0 | 0.5 | UL/CUL/TUV/CB/CE/PFC | 97.95 | 83.95 |
| 2122491 | Mean Well | PLP-20-24# | +24V @ 0-0.8A | 19.2 | 90-277 @ 47-63 | 5.5 x 1.3 x 0.8 | — | 10.0 | 3.0 | UL/CUL/TUV/CE | 8.95 | 7.95 |
| 2102799 | Mean Well | LPV-35-24 | +24V @ 0-1.5A | 36 | 90-264 @ 47-63 | 5.8 x 1.6 x 1.2 | IP67 | 2.0 | 1.0 | UL/CUL/TUV/CE | 12.95 | 10.95 |
| 2102801 | Mean Well | LPV-60-24 | +24V @ 0-2.5A | 60 | 90-264 @ 47-63 | 6.4 x 1.7 x 1.3 | IP67 | 2.0 | 1.0 | UL/CUL/TUV/CE | 14.49 | 11.75 |
| 2140779 | Mean Well | LFP-60D-24 | +24V @ 0-2.5A | 60 | 90-305 @ 47-63 | 6.4 x 1.7 x 1.3 | IP67 | 0.5 | 0.5 | UL/CUL/TUV/CE | 24.95 | 22.45 |
| 2105252 | Mean Well | ELN-60-24 | +24V @ 0-2.5A | 60 | 90-264 @ 47-63 | 7.1 x 2.4 x 1.4 | IP64 | 2.0 | 1.0 | UL/CUL/TUV/CSA/CE | 24.95 | 21.25 |
| 1919027 | Mean Well | CLG-60-24 | +24V @ 0-2.5A | 60 | 90-295 @ 47-63 | 7.7 x 2.4 x 1.5 | IP67 | 5.0 | 3.0 | UL/CUL/TUV/CE | 35.95 | 30.95 |
| 2103871 | Mean Well | PLC-100-24 | +24V @ 0-4A | 96 | 90-264 @ 47-63 | 7.9 x 2.7 x 1.4 | — | 2.0 | 1.0 | UL/CUL/TUV/CSA/CE/PFC | 39.95 | 33.95 |
| 1585872 | Mean Well | CLG-100-24 | +24V @ 0-4A | 96 | 90-295 @ 47-63 | 8.7 x 2.7 x 1.5 | IP67 | 2.0 | 1.0 | UL/CUL/TUV/CE/PFC | 45.95 | 38.95 |
| 2142731 | Mean Well | HLG-100H-24B | +24V @ 0-4A | 100 | 90-305 @ 47-63 | 8.7 x 2.7 x 1.5 | IP67 | 0.5 | 0.5 | UL/CUL/TUV/CE | 39.95 | 34.95 |
| 2103433 | Mean Well | CLG-150-24 | +24V @ 0-6.3A | 151.2 | 90-295 @ 47-63 | 8.7 x 2.7 x 1.5 | IP67 | 0.5 | 0.5 | UL/CUL/TUV/CE/PFC | 46.95 | 39.95 |
| 1954885 | Mean Well | CLG-150-24A | +24V @ 0-6.3A | 151.2 | 90-295 @ 47-63 | 8.7 x 2.7 x 1.5 | IP65 | 1.0 | 0.5 | UL/TUV/CE | 46.95 | 39.95 |
| 2136737 | Mean Well | HLG-185H-24B | +24V @ 0-7.8A | 187.2 | 90-305 @ 47-63 | 9.0 x 2.7 x 1.5 | IP67 | 0.5 | 0.5 | UL/CULus/TUV/CE/IP | 50.95 | 43.95 |
| 2102174 | Mean Well | HLG-240H-24A | +24V @ 0-10A | 240 | 90-305 @ 47-63 | 9.6 x 2.7 x 1.5 | IP65 | 0.5 | 0.5 | UL/CUL/TUV/CE/PFC | 66.95 | 56.95 |
| 2115127 | Mean Well | HLG-240H-24B | +24V @ 0-10A | 240 | 90-305 @ 47-63 | 9.6 x 2.7 x 1.5 | IP67 | 0.5 | 0.5 | UL/CUL/TUV/CE/PFC | 66.95 | 56.95 |
| 2147903 | Mean Well | HLG-320H-24 | +24V @ 0-13.3A | 319.2 | 90-305 @ 47-63 | 9.9 x 3.5 x 1.7 | IP67 | 0.5 | 0.5 | UL/CUL/TUV/CB/CE/PFC | 97.95 | 83.95 |
| 2141819 | Mean Well | HLG-320H-24A | +24V @ 0-13.34A | 320 | 90-305 @ 47-63 | 9.9 x 3.5 x 1.7 | IP65 | 0.5 | 0.5 | UL/CUL/TUV/CE/CB | 97.95 | 83.95 |
| 2148009 | Mean Well | HLG-150H-30B | +30V @ 0-5A | 150 | 90-277 @ 50-60 | 8.7 x 2.7 x 1.5 | IP67 | 0.5 | 0.5 | UL/TUV/CE/PFC | 47.95 | 39.95 |
| 2148025 | Mean Well | HLG-150H-36B | +36V @ 0-4.2A | 151.2 | 90-305 @ 47-63 | 9.0 x 2.7 x 1.5 | IP67 | 0.5 | 0.5 | UL/CUL/TUV/CE/PFC | 47.95 | 39.95 |
| 2101121 | Mean Well | LPC-20-350 | +48V @ 0-0.35A | 16.8 | 90-264 @ 47-63 | 4.6 x 1.4 x 1.0 | IP67 | 2.0 | 1.0 | UL/CUL | 8.95 | 7.75 |
| 2189302 | Mean Well | HLG-185H-C1400A | +71-143V @ 1.4A | 200 | 90-305 @ 47-63 | 9.0 x 2.7 x 1.5 | IP67 | — | 1.0 | CUL/CSA/EN | 50.95 | 43.95 |
| 2189345 | Mean Well | HLG-185H-C1400B | +71-143V @ 1.4A | 200 | 90-305 @ 47-63 | 9.0 x 2.7 x 1.3 | IP67 | — | 1.0 | CUL/CSA/EN | 50.95 | 43.95 |
| 2189281 | Mean Well | HLG-185H-C700A | +143-286V @ 0.7A | 200.2 | 90-305 @ 47-63 | 9.0 x 2.7 x 1.5 | IP65/IP67 | — | 1.0 | UL/CUL/CE | 50.95 | 43.95 |

*Applies only to primary output †Dimmable # Open frame

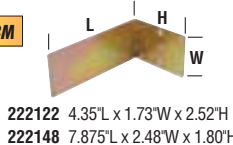


Mounting Brackets & Accessories for Mean Well Enclosed Switching AC-to-DC Power Supplies

All brackets use metric screws: 2-F3 x 6, 2-F4 x 6, 2-T3 x 6, 2-T4 x 6 and 8-T4 x 6 (not included)

* Web Code: MBM

| Part No. | Mfr. P/N | For Models | 1 | 10 |
|----------|----------|--|--------|--------|
| 222122 | DRL-01 | S-25/40, RS-25/35 | \$.99 | \$.89 |
| 222131 | DRL-02 | S-50/60/100/150, SP-100/150/200, D-120 | 1.25 | 1.09 |
| 222148 | DRL-03A | S-240/320, SP-320 | 1.49 | 1.35 |
| 222165 | DRP-02 | S-15/25, SP-75/100/150/200 | 1.49 | 1.35 |
| 222173 | DRP-03 | All Models | 1.49 | 1.25 |
| 222182 | MHS012 | S-320/350, SP-100/150/200/320 | .49 | .39 |
| 2105412 | MHS026 | RSP-1500 | .59 | .49 |
| 248736 | 2094.0 | DR, DRH, DRP, DRT, MDR | 8.95 | 7.95 |



Mating Connector

103588 \$1.90/10
Spade Solderless Terminal

Crimp Tool

72996 \$25.95
Solderless Terminal Crimp Tool

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
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| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

DIN-Rail Switching Power Supplies

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



DIN-Rail Switching Power Supplies

- Short-circuit, overload, overvoltage protection
- Low cost, high reliability
- 100% full-load burn-in test
- For DIN mounting rail, see page 107
- For DIN-Rail terminal blocks
- Universal AC input range
- Soft-start circuit, limiting AC surge current
- Rail not included

UL-508

*5-13.8V Web Code: DTW

*15-24V Web Code: DTF

*27.6-48V Web Code: DFO



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12



Fig. 13



Fig. 14

| Part No. | Mfr. Part No. | Fig. | Output Volts @ Curr. | Pwr (W) | Input Voltage (VAC @ Hz/VDC) | Input Current @ Max Load | Size (L" x W" x H") | Wt. (lbs.) | Certification | 1 | 10 |
|----------|---------------|------|----------------------|---------|---------------------------------|--------------------------|---------------------|------------|------------------|---------|--------|
| 2103978 | MDR-10-5 | 2 | 5VDC @ 2A | 10 | 88-264 @ 47-63 | 0.33A(115V)/0.21A(230V) | 3.5 x .89 x 3.9 | 0.4 | UL/CUL/TUV/CB/CE | \$11.49 | \$9.75 |
| 2101243 | DR-15-5 | 9 | 5VDC @ 2.4A | 12 | 85-264 @ 47-63/120-370 | 0.88A(115V)/0.48A(230V) | 1.0 x 3.7 x 2.2 | 0.2 | UL/CUL/TUV/CE | 12.95 | 10.95 |
| 1943300 | MDR-20-5 | 2 | 5VDC @ 3A | 15 | 85-264 @ 47-63/120-370 | 0.55A(115V)/0.35A(230V) | 3.9 x 0.9 x 3.5 | 0.4 | UL/CUL/TUV/CE | 13.49 | 11.95 |
| 1943393 | MDR-40-5 | 4 | 5VDC @ 6A | 30 | 85-264 @ 47-63/120-370 | 1.1A(115V)/0.7A(230V) | 3.9 x 1.6 x 3.5 | 0.6 | UL/CUL/TUV/CE | 17.95 | 14.95 |
| 1943449 | MDR-60-5 | 4 | 5VDC @ 10A | 50 | 85-264 @ 47-63/120-370 | 1.8A(115V)/1.0A(230V) | 3.9 x 1.6 x 3.5 | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.49 |
| 1952978 | MDR-10-12 | 2 | 12VDC @ 0.84A | 10 | 85-264 @ 47-63/120-370 | 0.33A(155V)/0.21A(230V) | 3.9 x 0.9 x 3.5 | 0.4 | UL/CUL/TUV/CE | 11.49 | 9.75 |
| 2094952 | DR-15-12 | 9 | 12VDC @ 1.25A | 15 | 85-264 @ 47-63/120-370 | 0.88A(115V)/0.48A(230V) | 3.7 x 1.0 x 2.2 | 0.2 | UL/CUL/TUV/CE | 12.95 | 10.95 |
| 1943334 | MDR-20-12 | 2 | 12VDC @ 1.67A | 20 | 85-264 @ 47-63/120-370 | 0.55A(115V)/0.35A(230V) | 3.9 x 0.9 x 3.5 | 0.4 | UL/CUL/TUV/CE | 13.49 | 11.95 |
| 373182 | DR-30-12 | 1 | 12VDC @ 2A | 24 | 85-264 @ 47-63/120-370 | 1.1A(115V)/0.6A(230V) | 3.1 x 3.7 x 2.2 | 0.6 | UL/CUL/TUV/CE | 15.95 | 14.25 |
| 1943406 | MDR-40-12 | 4 | 12VDC @ 3.33A | 40 | 85-264 @ 47-63/120-370 | 1.1A(115V)/0.7A(230V) | 3.9 x 1.6 x 3.5 | 0.6 | UL/CUL/TUV/CE | 17.95 | 14.95 |
| 192699 | DR-45-12 | 3 | 12VDC @ 3.5A | 42 | 85-264 @ 47-63/120-370 | 1.5A(115V)/0.75A(230V) | 3.0 x 2.6 x 3.6 | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.49 |
| 373230 | DR-60-12 | 1 | 12VDC @ 4.5A | 54 | 85-264 @ 47-63/124-370 | 1.8A(115V)/1.0A(230V) | 3.1 x 3.7 x 2.2 | 0.7 | UL/CUL/TUV/CE | 21.49 | 18.95 |
| 1943457 | MDR-60-12 | 4 | 12VDC @ 5A | 60 | 85-264 @ 47-63/120-370 | 1.8A(115V)/1.0A(230V) | 3.9 x 1.6 x 3.5 | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.49 |
| 212291 | DR-75-12 | 7 | 12VDC @ 6.3A | 75 | 85-264 @ 47-63/120-370 | 2.0A(115V)/1.2A(230V) | 3.9 x 2.1 x 4.9 | 1.2 | UL/CUL/TUV/CE | 30.95 | 25.95 |
| 1943481 | MDR-100-12 | 5 | 12VDC @ 7.5A | 90 | 85-264 @ 47-63/120-370 | 1.3A(155V)/0.8A(230V) | 3.9 x 2.2 x 3.5 | 0.9 | UL/CUL/TUV/CE | 33.95 | 28.95 |
| 2218530 | EDR-120-12 | 6 | 12VDC @ 10A | 120 | 90-264 @ 47-63 | 2.25A(115V)/1.3A(230V) | 4.5 x 1.6 x 5.0 | 1.32 | UL/CUL/TUV/CE | 24.95 | 22.49 |
| 212274 | DR-120-12 | 7 | 12VDC @ 10A | 120 | 88-132/176-264* @ 47-63 | 2.8A(115V)/1.7A(230V) | 2.6 x 3.9 x 4.9 | 1.4 | UL/CUL/TUV/CE | 37.95 | 31.95 |
| 2099366 | SDR-120-12† | 8 | 12VDC @ 10A | 120 | 88-264/124-370 @ 47-63 | 1.4A(115V)/1.0.7A(230V) | 4.5 x 1.6 x 4.9 | 1.5 | UL/CUL/TUV/CE | 50.95 | 43.95 |
| 1943342 | MDR-20-15 | 2 | 15VDC @ 1.24A | 20 | 85-264 @ 47-63/120-370 | 0.55A(115V)/0.35A(230V) | 3.9 x 0.9 x 3.5 | 0.4 | UL/CUL/TUV/CE | 13.49 | 11.95 |
| 1952986 | MDR-10-24 | 2 | 24VDC @ 0.42A | 10 | 85-264 @ 47-63/120-370 | 0.33A(115V)/0.21A(230V) | 3.9 x 0.9 x 3.5 | 0.4 | UL/CUL/TUV/CE | 11.49 | 9.75 |
| 2100873 | DR-15-24 | 9 | 24VDC @ 0.63A | 15.2 | 85-264 @ 47-63/120-370 | 0.88A(115V)/0.48A(230V) | 2.2 x 1.0 x 3.7 | 0.2 | UL/CUL/TUV/CE | 12.95 | 10.95 |
| 1943385 | MDR-20-24 | 2 | 24VDC @ 1A | 24 | 85-264 @ 47-63/120-370 | 0.55A(115V)/0.35A(230V) | 3.9 x 0.9 x 3.5 | 0.4 | UL/CUL/TUV/CE | 13.49 | 11.95 |
| 373203 | DR-30-24 | 1 | 24VDC @ 1.5A | 36 | 85-264 @ 47-63/120-370 | 1.1A(115V)/0.6A(230V) | 3.1 x 3.7 x 2.2 | 0.6 | UL/CUL/TUV/CE | 15.95 | 14.25 |
| 1943422 | MDR-40-24 | 4 | 24VDC @ 1.7A | 40.8 | 85-264 @ 47-63/120-370 | 1.1A(115V)/0.7A(230V) | 3.9 x 1.6 x 3.5 | 0.6 | UL/CUL/TUV/CE | 17.95 | 14.95 |
| 192681 | DR-45-24 | 3 | 24VDC @ 2A | 48 | 85-264 @ 47-63/120-370 | 1.5A(115V)/0.75A(230V) | 3.0 x 2.6 x 3.6 | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.49 |
| 1943465 | MDR-60-24 | 4 | 24VDC @ 2.5A | 60 | 85-264 @ 47-63/120-370 | 1.8A(115V)/1.0A(230V) | 3.9 x 1.6 x 3.5 | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.49 |
| 373246 | DR-60-24 | 1 | 24VDC @ 2.5A | 60 | 85-264 @ 47-63/124-370 | 1.8A(115V)/1.0A(230V) | 3.1 x 3.7 x 2.2 | 0.7 | UL/CUL/TUV/CE | 21.49 | 18.95 |
| 212282 | DR-75-24 | 7 | 24VDC @ 3.2A | 75 | 85-264 @ 47-63/120-370 | 2.0A(115V)/1.2A(230V) | 3.9 x 2.1 x 4.9 | 1.2 | UL/CUL/TUV/CE | 30.95 | 25.95 |
| 2190320 | SDR-75-24 | 13 | 24VDC @ 3.2A | 76.8 | 88-264 @ 47-63 | 1.4A(115V)/0.85A(230V) | 4.0 x 1.25 x 4.9 | 0.4 | UL/CUL/TUV/CE | 31.95 | 26.95 |
| 1943490 | MDR-100-24 | 5 | 24VDC @ 4A | 90 | 85-264 @ 47-63/120-370 | 1.3A(115V)/0.8A(230V) | 3.9 x 2.2 x 3.5 | 0.9 | UL/CUL/TUV/CE | 33.95 | 28.95 |
| 1943537 | DR-100-24 | 1 | 24VDC @ 4.2A | 100.8 | 88-264 @ 47-63/124-370 | 3.0A(115V)/1.6A(230V) | 2.2 x 3.9 x 3.7 | 0.8 | UL/CUL/TUV/CE | 29.95 | 25.95 |
| 212266 | DR-120-24 | 7 | 24VDC @ 5A | 120 | 88-132/176-264* @ 47-63 | 2.8A(115V)/1.7A(230V) | 2.6 x 3.9 x 4.9 | 1.4 | UL/CUL/TUV/CE | 37.95 | 31.95 |
| 2218548 | EDR-120-24 | 6 | 24VDC @ 5A | 120 | 90-264 @ 47-63 | 2.25A(115V)/1.3A(230V) | 4.5 x 1.6 x 5.0 | 1.32 | UL/CUL/TUV/CE | 24.95 | 22.49 |
| 1953727 | DRH-120-24 | 7 | 24VDC @ 5A | 120 | 340-550 @ 47-63/480-780 | 0.65A(400V)/0.6A(500V) | 3.9 x 2.6 x 4.9 | 1.7 | UL/CE | 54.95 | 48.95 |
| 2099374 | SDR-120-24† | 8 | 24VDC @ 5A | 120 | 88-264/124-370 @ 47-63 | 1.4A(115V)/1.0.7A(230V) | 4.5 x 1.6 x 4.9 | 1.5 | UL/CUL/TUV/CE | 50.95 | 43.95 |
| 2123055 | WDR-120-24 | 14 | 24VDC @ 5A | 120 | 180-550 @ 47-63 | 0.55A(400V)/1.2A(230V) | 4.5 x 1.6 x 4.9 | 0.4 | UL/CUL/CB/CE | 60.95 | 52.95 |
| 2218564 | EDR-150-24 | 6 | 24VDC @ 5.2A | 125 | 90-264 @ 47-63 | 2.6A(115V)/1.7A(230V) | 4.5 x 1.6 x 5.0 | 1.32 | UL/CUL/TUV/CE | 26.95 | 23.95 |
| 221892 | DRP-240-24† | 10 | 24VDC @ 10A | 240 | 85-264 @ 47-63/120-370 | 2.8A(115V)/1.4A(230V) | 3.9 x 4.9 x 4.9 | 2.4 | UL/CUL/TUV/CE | 58.95 | 49.95 |
| 373123 | DRT-240-24 | 10 | 24VDC @ 10A | 240 | 3-phase 340-550 @ 47-63/480-780 | 0.95A(400V)/0.75A(500V) | 3.9 x 4.9 x 4.9 | 2.9 | UL/CUL/TUV/CE | 69.95 | 63.95 |
| 2081086 | SDR-240-24† | 8 | 24VDC @ 10A | 240 | 88-264 @ 47-63/124-370 | 2.6A(115V)/1.3A(230V) | 2.5 x 4.9 x 4.5 | 2.5 | UL/CUL/TUV/CE | 87.95 | 74.95 |
| 252663 | DRP-480-24† | 11 | 24VDC @ 20A | 480 | 180-264 @ 47-63/250-370 | 4.0A(230V) | 8.9 x 3.9 x 4.9 | 4.6 | UL/CUL/TUV/CE | 102.95 | 86.95 |
| 295938 | DRP-480S-24† | 11 | 24VDC @ 20A | 480 | 90-132/180-264* @ 47-63/254-370 | 11.0A(115V)/4.0A(230V) | 8.9 x 3.9 x 4.9 | 4.6 | UL/CUL/TUV/CE | 111.95 | 98.95 |
| 372577 | DRT-480-24 | 11 | 24VDC @ 20A | 480 | 3-phase 340-550 @ 47-63/480-780 | 1.7A(400V)/1.3(500V) | 8.9 x 5.0 x 3.9 | 5.5 | UL/CUL/TUV/CE | 116.95 | 100.95 |
| 2094944 | SDR-480-24† | 12 | 24VDC @ 20A | 480 | 88-264 @ 47-63/124-370 | 2.6A(115V)/1.3A(230V) | 4.9 x 3.4 x 5.0 | 4.9 | UL/CUL/TUV/CE | 143.95 | 124.95 |
| 373131 | DRT-960-24 | 11 | 24VDC @ 40A | 960 | 340-550 @ 47-63 | 2A(400V)/1.6A(500V) | 10.9 x 3.9 x 4.9 | 7.3 | UL/CUL/TUV/CE | 219.95 | 199.95 |
| 1943473 | MDR-60-48 | 4 | 48VDC @ 1.25A | 60 | 85-264 @ 47-63/120-370 | 1.8A(115V)/1.0A(230V) | 3.9 x 1.6 x 3.5 | 0.7 | UL/CUL/TUV/CE | 18.95 | 16.49 |
| 221866 | DR-75-48 | 7 | 48VDC @ 1.6A | 76.8 | 85-264 @ 47-63 | 2A(115V)/1.2A(230V) | 3.9 x 2.2 x 4.9 | 1.7 | UL/TUV/CE | 30.95 | 25.95 |
| 1943502 | MDR-100-48 | 4 | 48VDC @ 2A | 96 | 85-264 @ 47-63 | 1.3A(115V)/0.8A(230V) | 4.0 x 2.2 x 3.5 | 0.93 | UL/CUL/TUV/CE | 33.95 | 28.95 |
| 221904 | DR-120-48 | 7 | 48VDC @ 2.5A | 120 | 88-132/176-264* @ 47-63 | 2.8A(115V)/1.7A(230V) | 2.6 x 3.9 x 4.9 | 1.4 | UL/CUL/TUV/CE | 37.95 | 31.95 |
| 2107338 | SDR-120-48 | 8 | 48VDC @ 2.5A | 120 | 88-264 @ 47-63 | 1.4A(115V)/1.0.7A(230V) | 4.9 x 1.6 x 4.5 | 1.5 | UL/CUL/TUV/CB/CE | 50.95 | 43.95 |
| 221883 | DRP-240-48† | 10 | 48VDC @ 5A | 240 | 85-264 @ 47-63/120-370 | 3.5A(115V)/1.8A(230V) | 3.9 x 4.9 x 4.9 | 2.4 | UL/CUL/TUV/CE | 58.95 | 49.95 |
| 2094936 | SDR-240-48† | 8 | 48VDC @ 5A | 240 | 88-264 @ 47-63/120-370 | 2.6A(115V)/1.3A(350V) | 2.5 x 4.9 x 4.5 | 2.5 | UL/CUL/TUV/CE | 87.95 | 74.95 |
| 301306 | DRP-480S-48† | 11 | 48VDC @ 10A | 480 | 90-132/180-264* @ 47-63/254-370 | 11.0A(115V)/4.0A(230V) | 8.9 x 3.9 x 4.9 | 4.6 | UL/CUL/TUV/CE | 111.95 | 98.95 |
| 2107346 | SDR-480-48 | 12 | 48VDC @ 10A | 480 | 90-264 @ 47-63 | 5A(115V)/2.5A(230V) | 4.9 x 3.4 x 5.1 | 3.5 | UL/CUL/TUV/CB/CE | 143.95 | 124.95 |

* Switch selectable † With Power Factor Correction

DIN-Rail UPS Module & DC-to-DC Power Converters

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40A DC DIN-Rail UPS Module

* Web Code: DTF

| Part No. | Mfr. Part No. | Description | DC Input/DC BUS | Output Voltage @ Current | Charge Current | Certification | 1 | 10 |
|----------|---------------|----------------------------|-----------------|--------------------------|----------------|---------------|---------|---------|
| 2103273 | DR-UPS40 | Battery controller for UPS | 24-29V @ 40A | 21-29VDC @ 0-40A | 2A | CE | \$39.95 | \$34.95 |



Rail not included



15 to 201-Watt Enclosed Converters

- 2:1 wide input range
- Working temp.: -10°C to +60°C
- 100% burn-in tes
- Protection: short-circuit, overload and overvoltage

* 5-9V Web Code: IDF

* 12V Web Code: IDW

* 15-24V Web Code: IDR

* 30-48V Web Code: IDO

- SD-15 Series** • Built-in EMI filter, low ripple noise • One-year warranty
- SD-25/SD-50/SD-150 Series** • Isolation voltage: 1500VDC • Built-in EMI filter, low ripple noise • One-year warranty
- SD-200 Series** • Isolation voltage: 1500VDC • Cooling by free air convection • Fixed switching freq @ 83kHz • One-year warranty



SD-150

| Part No. | Mfr. Part No. | Input Range | Output | | Size (L" x W" x H") | Pins | Line Reg. (±%) | Load Reg. (±%) | Ripple & Noise (mV p-p) | Certification | Pricing | |
|----------|---------------|-------------|-------------------|-----------|------------------------|------|-------------------|-------------------|----------------------------|---------------|---------|---------|
| | | | Voltage @ Current | Power (W) | | | | | | | 1 | 10 |
| 1953778 | SD-15A-5 | 9.2-18V | +5V @ 3.0A | 15 | 3.1 x 2.0 x 1.1 | 5 | 0.5 | 0.5 | 100 | CE | \$11.95 | \$10.75 |
| 1953786 | SD-15B-5 | 18-36V | +5V @ 3.0A | 15 | 3.1 x 2.0 x 1.1 | 5 | 0.5 | 0.5 | 100 | CE | 11.95 | 10.75 |
| 175662 | SD-25A-5 | 9-18V | +5V @ 5.0A | 25 | 3.9 x 3.8 x 1.4 | 5 | 0.5 | 0.5 | 100 | CE | 20.95 | 18.95 |
| 212549 | SD-50A-5 | 9-18V | +5V @ 10A | 50 | 6.3 x 3.8 x 1.5 | 5 | 0.5 | 0.5 | 100 | CE | 24.95 | 22.49 |
| 1953823 | SD-15B-12 | 18-36V | +12V @ 1.25A | 15 | 3.1 x 2.0 x 1.1 | 5 | 0.3 | 0.3 | 120 | CE | 11.95 | 10.75 |
| 1953840 | SD-15C-12 | 36-72V | +12V @ 1.25A | 15 | 3.1 x 2.0 x 1.1 | 5 | 0.3 | 0.3 | 120 | CE | 11.95 | 10.75 |
| 175805 | SD-25A-12 | 9-18V | +12V @ 2.1A | 25.2 | 3.9 x 3.8 x 1.4 | 5 | 0.3 | 0.3 | 120 | CE | 20.95 | 18.95 |
| 1537483 | SD-50A-12 | 9.2-18V | +12V @ 4.2A | 50.4 | 6.3 x 3.8 x 1.5 | 5 | 0.3 | 0.3 | 120 | CE | 24.95 | 22.49 |
| 212531 | SD-50B-12 | 19-36V | +12V @ 4.2A | 50.4 | 6.3 x 3.8 x 1.5 | 5 | 0.3 | 0.3 | 120 | CE | 24.95 | 22.49 |
| 212506 | SD-50C-12 | 36-72V | +12V @ 4.2A | 50.4 | 6.3 x 3.8 x 1.5 | 5 | 0.3 | 0.3 | 120 | CE | 24.95 | 22.49 |
| 217270 | SD-150B-12 | 19-36V | +12V @ 12.5A | 150 | 7.8 x 4.3 x 2.0 | 7 | 0.5 | 0.5 | 120 | CE | 41.95 | 37.95 |
| 175813 | SD-25A-24 | 9-18V | +24V @ 1.1A | 26.4 | 3.9 x 3.8 x 1.4 | 5 | 0.2 | 0.2 | 150 | CE | 20.95 | 18.95 |
| 2107266 | SD-50A-24 | 9.2-18V | +24V @ 2.1A | 50.4 | 6.3 x 3.8 x 1.5 | 5 | 0.2 | 0.2 | 150 | CE | 24.95 | 22.49 |
| 2107039 | SD-100C-24 | 36-72V | +24V @ 4.2A | 100.8 | 7.8 x 3.9 x 1.6 | 7 | 0.2 | 0.2 | 150 | CE | 31.95 | 27.95 |
| 2107098 | SD-150C-24 | 36-72V | +24V @ 6.3A | 151.2 | 7.8 x 4.3 x 2.0 | 7 | 0.3 | 0.3 | 150 | CE | 41.95 | 37.95 |
| 1953954 | SD-200B-24 | 19-36V | +24V @ 8.4A | 201.6 | 8.5 x 4.5 x 2.0 | 9 | 0.5 | 1.0 | 150 | CE | 69.95 | 61.95 |

Encapsulated DC-to-DC Converters

* 3.3-9V Web Code: IEF

* 12-13.5V Web Code: IEW

* 15-24V Web Code: IEO

- 1000VDC I/O isolation
- Short-circuit/overload protection
- Shield metal case
- 2:1 wide input range
- Cooling by free air convection
- One-year warranty



SLW05



SKE10



DKE10

| Part No. | Mfr. Part No. | Input Range | Output | | Size (L" x W" x H") | Pins | Line Reg. (±%) | Load Reg. (±%) | Ripple & Noise (mV p-p) | Certification | Pricing | |
|----------|---------------|-------------|-------------------|---------|------------------------|------|-------------------|-------------------|----------------------------|---------------|---------|---------|
| | | | Voltage @ Current | Pwr (W) | | | | | | | 1 | 10 |
| 213234 | SLW05C-05* | 36-72V | +5V @ 1A | 5 | 2.0 x 1.0 x 0.44 | 5 | 1.0 | 0.2 | 100 | CE | \$11.95 | \$10.95 |
| 216937 | SLW05B-05* | 18-36V | +5V @ 1A | 5 | 2.0 x 1.0 x 0.44 | 5 | 1.0 | 0.2 | 100 | CE | 11.95 | 10.95 |
| 216962 | SKE10A-05* | 9-18V | +5V @ 2A | 10 | 2.0 x 1.0 x 0.44 | 5 | 0.3 | 1.0 | 50 | CE | 17.95 | 16.49 |
| 155716 | SKE15A-05* | 9-18V | +5V @ 3A | 15 | 2.0 x 2.0 x 0.43 | 5 | 0.3 | 0.5 | 50 | CE | 18.95 | 16.95 |
| 155708 | SKE15A-12* | 9-18V | +12V @ 1.25A | 15 | 2.0 x 2.0 x 0.43 | 5 | 0.3 | 0.5 | 60 | CE | 16.49 | 15.49 |
| 155695 | SKE15A-24* | 9-18V | +24V @ 0.625A | 15 | 2.0 x 2.0 x 0.43 | 5 | 0.3 | 0.5 | 80 | CE | 18.95 | 16.95 |
| 161702 | DCW03A-12** | 9-18V | +12V @ 0.125A | 15 | 1.25 x 0.8 x 0.48 | 10 | 1.0 | 0.5 | 100 | CE | 9.95 | 8.95 |
| 217092 | DKE10A-12** | 9-18V | +12V @ 0.42A | 5.04 | 2.0 x 1.0 x 0.44 | 5 | 0.3 | 0.5 | 60 | CE | 18.95 | 17.49 |
| 217112 | DKE10A-15** | 9-18V | +15V @ 0.333A | 5.0 | 2.0 x 1.0 x 0.44 | 5 | 0.3 | 0.5 | 60 | CE | 18.95 | 17.49 |

* Single output

** Double output

DC-to-AC Inverters Pure and Modified Sine Waves

* Web Code: XEL

NEW
MARKED IN PINK

| Part No. | Mfr. Part No. | Input Range (VDC) | Output (VAC) | Wattage (W) | Efficiency (%) | LED Indicator | Size (L" x W" x H") | Pricing | |
|----------|---------------|----------------------|-----------------|----------------|-------------------|---------------|------------------------|---------|---------|
| | | | | | | | | 1 | 10 |
| 277181 | A-301-150-B2 | 10-15 | 120 | 150 | 78 | Yes | 4.8 x 2.9 x 1.8 | \$32.95 | \$29.95 |
| 2228316 | PWR118012S | 10-16.2 | 120 | 180 | 90 | Yes | 5.9 x 3.2 x 1.5 | 24.95 | 22.49 |
| 2108445 | TS-200-112A | 10.5-15 | 120 | 200 | 86 | Yes | 8.0 x 6.2 x 2.3 | 114.95 | 104.95 |



277181

POWER SUPPLIES AND WALL ADAPTERS — GREAT PRICES ON SPECIAL BUYS

| Part No. | Type | Voltage @ Current | Power | Price | | Part No. | Type | Voltage @ Current | Power | Price |
|----------|-------|-------------------|-------|--------|--|----------|----------|-------------------|--------|--------|
| 2188730 | Open | +5V @ 2A | 10W | \$4.95 | | 2188705 | Wall | +12V @ 1.5A | 18W | \$9.95 |
| 2208981 | Table | +5V @ 4A | 20W | 6.95 | | 2230256 | Table | +12V @ 3A | 36W | 15.95 |
| 2230272 | Wall | +12V @ 50mA | 0.6W | 3.95 | | 2149546 | Enclosed | +36V @ 9.7A | 349.2W | 43.95 |
| 2229503 | Wall | +5V @ 1.2A | 6W | 7.95 | | 2229247 | Table | +12V @ 4A | 48W | 10.95 |
| 2258380 | Table | +12V @ 2.5A | 30W | 10.95 | | 2257168 | Table | +5V @ 4A | 20W | 12.19 |
| 2202618 | Table | +15V @ 1.2A | 18W | 5.95 | | 2258443 | Wall | +12V @ 1A | 12W | 8.95 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

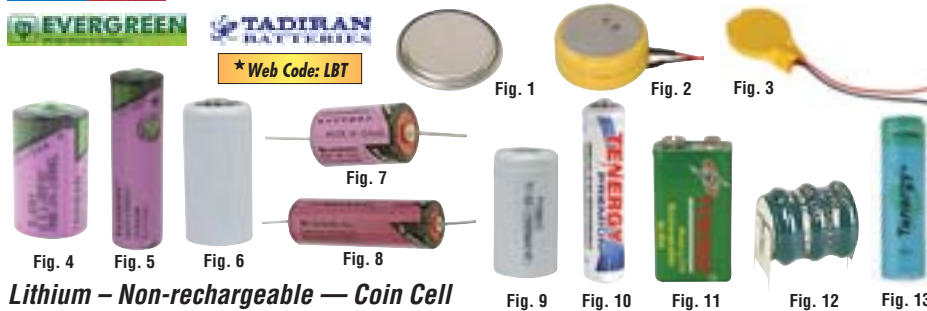
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| 3 LEVELS OF SAVINGS | | |
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| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Lithium, NiCd, NiMH, Li-Ion & LiFePO4 Batteries



Lithium - Non-rechargeable - Coin Cell

| Part No. | Product No. | Mfr. | Fig. | Size | Volts | mAh | Dimensions | 1 | 10 | 25 |
|----------|--------------|-----------|------|--------|-------|------|--------------------------|--------|--------|--------|
| 2123784 | CR1220 | Evergreen | 1 | CR1220 | 3 | 40 | 0.49" Dia. x 0.77" Thick | \$.69 | \$.59 | \$.49 |
| 2210010 | CR1220-LEADS | ReliaPro | 2 | CR1220 | 3 | 40 | 0.49" Dia. x 0.77" Thick | .89 | .79 | .69 |
| 2119865 | CR1632 | Evergreen | 1 | CR1632 | 3 | 120 | 0.63" Dia. x 0.13" Thick | .99 | .89 | .79 |
| 2238362 | CR2025-LEADS | ReliaPro | 3 | CR2025 | 3 | 160 | 0.79" Dia. x 0.10" Thick | 1.29 | 1.15 | .99 |
| 2167509 | CR2025-2* | Evergreen | 1 | CR2025 | 3 | 162 | 0.79" Dia. x 0.10" Thick | 1.95 | 1.75 | 1.49 |
| 14162 | CR2032 | Renata | 1 | CR2032 | 3 | 180 | 0.79" Dia. x 0.13" Thick | .89 | .79 | .69 |
| 2223443 | CR2032-LEADS | ReliaPro | 3 | CR2032 | 3 | 180 | 0.79" Dia. x 0.13" Thick | 1.49 | 1.29 | 1.19 |
| 11789 | CR2325 | ReliaPro | 1 | CR2325 | 3 | 165 | 0.91" Dia. x 0.13" Thick | 1.19 | 1.09 | .99 |
| 2229571 | CR2354 | Panasonic | 1 | CR2354 | 3 | 560 | 0.91" Dia. x 0.21" Thick | 1.49 | 1.35 | 1.19 |
| 2119216 | CR2450 | Evergreen | 1 | CR2450 | 3 | 550 | 0.95" Dia. x 0.20" Thick | 1.19 | 1.09 | .99 |
| 2238371 | CR2450-LEADS | ReliaPro | 3 | CR2450 | 3 | 550 | 0.95" Dia. x 0.20" Thick | 1.35 | 1.19 | 1.09 |
| 2258822 | CR2477BN | Panasonic | 1 | CR2477 | 3 | 1000 | 0.96" Dia. x 0.30" Thick | 1.95 | 1.75 | 1.49 |
| 2158231 | CR927 | ReliaPro | 1 | CR927 | 3 | 30 | 0.37" Dia. x 0.10" Thick | .59 | .49 | .39 |

* Sold in multiple of 2 \$2 wire leads

Lithium - Non-rechargeable - Pressure Fit

| Part No. | Product No. | Mfr. | Fig. | Size | Volts | mAh | Dimensions | 1 | 10 | 25 |
|----------|-------------|-----------|------|--------|-------|------|----------------------|--------|--------|--------|
| 2188561 | LS14250 | Saft | 4 | 1/2 AA | 3.6 | 1200 | 1.00" L x 0.56" Dia. | \$3.95 | \$3.59 | \$3.29 |
| 146114 | TL-5104/S | Tadiran | 5 | AA | 3.6 | 2100 | 1.91" L x 0.56" Dia. | 6.95 | 6.25 | 5.59 |
| 240258 | CR123A | Evergreen | 6 | CR123A | 3 | 1300 | 1.36" L x 0.65" Dia. | 2.49 | 2.25 | 1.95 |

Lithium - Non-rechargeable - Axial Leads

| Part No. | Product No. | Mfr. | Fig. | Size | Volts | mAh | Dimensions | 1 | 10 | 25 |
|----------|-------------|----------|------|--------|-------|------|----------------------|--------|--------|--------|
| 33371 | TL-5101P | Tadiran | 7 | 1/2 AA | 3.6 | 950 | 0.93" L x 0.56" Dia. | \$5.95 | \$5.39 | \$4.79 |
| 263898 | ER14250 | ReliaPro | 7 | 1/2 AA | 3.6 | 1000 | 1.00" L x 0.55" Dia. | 4.49 | 3.95 | 3.75 |
| 33398 | TL-5104/P | Tadiran | 8 | AA | 3.6 | 2100 | 1.88" L x 0.56" Dia. | 7.29 | 6.59 | 5.95 |

NiCd - Rechargeable - Pressure Fit

* Web Code: GCF

| Part No. | Product No. | Mfr. | Fig. | Size | Volts | mAh | Dimensions | 1 | 10 | 25 |
|----------|-------------|----------|------|-------|-------|------|----------------------|--------|--------|--------|
| 261657 | AA-700-CT | ReliaPro | 5 | AA | 1.2 | 700 | 1.90" L x 0.55" Dia. | \$1.75 | \$1.49 | \$1.25 |
| 244515 | AA-1000-CT | ReliaPro | 5 | AA | 1.2 | 1000 | 1.90" L x 0.55" Dia. | 2.49 | 2.25 | 1.95 |
| 244574 | SC-1500 | ReliaPro | 9 | Sub-C | 1.5 | 1500 | 1.70" L x 0.89" Dia. | 2.95 | 2.59 | 2.29 |

NiMH - Rechargeable

* Web Code: GCF

| Part No. | Product No. | Mfr. | Fig. | Size | Volts | mAh | Dimensions | 1 | 10 | 25 |
|----------|-------------|----------|------|------|-------|------|-----------------------------|--------|--------|--------|
| 231095 | 10405 | Tenergy | 10 | AAA | 1.2 | 1000 | 1.70" L x 0.40" Dia. | \$2.75 | \$2.49 | \$2.25 |
| 231087 | AA-1800NM | Dantona | 5 | AA | 1.2 | 1800 | 1.90" L x 0.55" Dia. | 3.49 | 2.95 | 2.59 |
| 2197492 | AA-2300-2* | ReliaPro | 5 | AA | 1.2 | 2300 | 1.90" L x 0.55" Dia. (2 pk) | 4.95 | 4.49 | 3.95 |
| 2127777 | AA-2500CT | Tenergy | 5 | AA | 1.2 | 2500 | 1.90" L x 0.55" Dia. | 3.95 | 3.59 | 3.29 |
| 244620 | 10005 | Tenergy | 11 | 9V | 8.4 | 200 | 1.94" L x 0.65" Dia. | 7.95 | 6.95 | 6.25 |

* Pack of 2

PC Pin (2 & 3 pin)

| Part No. | Product No. | Mfr. | Fig. | Cell Size | Volts | mAh | Dimensions | 1 | 10 | 25 |
|----------|--------------|-----------|------|-----------|-------|-----|----------------------|--------|--------|--------|
| 2137473 | NHB60H3A2H | Evergreen | 12 | 2 pin | 3.6 | 80 | 0.72" L x 0.61" Dia. | \$4.95 | \$4.49 | \$3.95 |
| 2129342 | COMP-16-3NMH | Dantona | 12 | 3 pin | 3.6 | 80 | 0.72" L x 0.61" Dia. | 6.95 | 6.25 | 5.59 |

Li-Ion - Rechargeable - Pressure Fit

* Web Code: LII

| Part No. | Product No. | Mfr. | Fig. | Cell Size | Volts | mAh | Dimensions | 1 | 10 | 25 |
|----------|-------------|---------|------|-----------|-------|------|----------------------|---------|---------|--------|
| 2140349 | 30006 | Tenergy | 13 | 18650 | 3.7 | 2600 | 2.56" L x 0.72" Dia. | \$11.95 | \$10.95 | \$9.95 |

LiFePO4 - Rechargeable - Pressure Fit

* Web Code: LIF

| Part No. | Product No. | Mfr. | Fig. | Cell Size | Volts | mAh | Dimensions | 1 | 10 | 25 |
|----------|-------------|---------|------|------------|-------|-----|----------------------|--------|--------|--------|
| 2144227 | 30225 | Tenergy | 5 | 14500 (AA) | 3.2 | 400 | 1.91" L x 0.56" Dia. | \$2.49 | \$2.25 | \$1.95 |

12V Lithium-Ion Rechargeable Battery Pack

High-powered, ultra-compact, covert battery pack with charger. Provides the same power as larger batteries at a fraction of the size and weight.

- Charging adapter included
- On/Off switch
- LED indicators
- 18" power cord
- Input: 110-230VAC 50/60Hz
- Output: 12.6VDC, 350mA
- Connection: 2.1mm female output, 2.1mm male input
- Size: 3.0"L x 2.0"W x 0.75"H
- Weight: 0.58 lbs.
- Initial charge should be 24 hours before use

| Part No. | Description | 1 | 10 |
|----------|-------------|---------|---------|
| 2129351 | LBP-124500 | \$49.95 | \$44.95 |

Lithium-Ion Power Bank Rechargeable Battery Pack

- 4000mAh (4Ah)
- Output: dual USB output 5VDC, one with 1A output and one with 2A output
- Input: one micro B USB port (5VDC, 1A)
- Convenient battery test button
- 1 foot USB male to micro B male cable included)

| Part No. | Mfr. Part No. | 1 | 10 | 25 |
|----------|---------------|---------|---------|---------|
| 2228527 | Q57251 | \$19.95 | \$18.95 | \$17.95 |

USB Li-Ion/LiPoly Charger

- Assembled. Includes bonus 2-pin JST cable
- For 3.7/4.2V (not compatible with 3.6/4.1V cells)
- Connect via USB mini-B
- 500mA default fast-charge current
- Battery and USB cable sold separately
- 0.1" breakouts for battery, DC and status LEDs
- Size: 1.3"L x 1.4"W x 0.3"H

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 2144366 | 259 | \$13.95 | \$12.95 |

3.7V 2500mAh Li-Poly Battery Pack

- Lithium-ion polymer battery pack
- 3.7V (as high as 4.2V on full charge)
- 3.75" wires with 2-pin JST connector
- Recharge rate should be ≤1200 mA (1/2C)
- Size: 2"L x 2.55"W x 0.3"H

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 2240139 | 328 | \$18.95 | \$17.95 |

Wall Type NiMH/NiCd Battery Charger

- Input voltage: 120VAC @ 60Hz
- Output power: 1.2VA
- 2 individual charging channels
- Retractable AC prongs
- LED indicator and reverse polarity protection

| Part No. | Mfr. P/N | Description | 1 | 10 | 100 |
|----------|----------|-------------------|--------|--------|--------|
| 2197505 | KN-101 | AA/AAA/9V charger | \$1.95 | \$1.75 | \$1.49 |

* Battery Chargers & Packs — Enter Web Code LAC

Batteries & Battery Chargers



Evergreen, Energizer® & Duracell® Alkaline Batteries



| Part No. | Mfr. | Size | Min. | 1 | 20 | 100 |
|----------|------|------------|------|-------|-------|-------|
| 198707 | ENG | 1.5V - AA | 4 | \$.85 | \$.75 | \$.65 |
| 2112444 | EVG | 1.5V - AA | 4 | .39 | .35 | .29 |
| 2158493 | MIC | 1.5V - AA* | 2 | .39 | .29 | .25 |
| 198715 | ENG | 1.5V - AAA | 4 | .69 | .59 | .55 |
| 2112436 | EVG | 1.5V - AAA | 2 | .49 | .45 | .39 |
| 2112428 | EVG | 1.5V - C | 2 | 1.19 | 1.09 | .99 |
| 2112461 | EVG | 9V | 2 | 1.75 | 1.59 | 1.39 |

* Cadmium

* ENG = Energizer | EVG = Evergreen | MIC = Micropower



* Web Code: NBF

| Part No. | Mfr. | Size | 1 | 10 |
|----------|-----------|----------|--------|--------|
| 215845 | Energizer | 1.5V - D | \$1.39 | \$1.25 |
| 198731 | Energizer | 9V | 2.25 | 1.95 |
| 198791 | Duracell | 9V | 2.65 | 2.39 |



Silver Oxide and Zinc Chloride Batteries

Applications: Personal computers, workstations, test equipment, feature telephones, copiers, fax machines, video scramblers/descramblers and remotes.

* Web Code: XAB



| Part No. | Cross Ref. | Description | 1 | 10 |
|----------|------------|-------------------------------------|--------|--------|
| 140783 | 357 | Silver oxide, button, 1.55V, 175mAh | \$1.39 | \$1.25 |
| 151095 | GF6F22 | Zinc chloride, 9V | 1.29 | 1.15 |
| 2183699 | 4R25-EV | Zinc chloride, 6V, 7400mAh | 2.95 | 2.69 |

13.5VDC @ 2.2A Switching Table-Top Adapter

- Input voltage: 100 to 240VAC @ 50-60Hz
- Output voltage: 13.5V @ 2.2A
- Output connector: 30" cable with 4-position (2 x 2 grid) Molex Mini-Fit Jr. 5559 series connector (39-01-2041)
- UL/CUL listed • Can be used as battery charger

* Web Code: LAC



Includes: 5' 3-prong Mickey Mouse type power cord

| Part No. | Mfr. Part No. | Size (L" x W" x H") | 1 | 10 | 100 |
|----------|---------------|---------------------|--------|--------|--------|
| 2139006 | 3G-301DN13 | 7.09 x 3.78 x 1.93 | \$4.95 | \$4.49 | \$3.95 |

360-Watt Single Output Lead Acid Battery Charger

- Input: 115VAC/230VAC @ 47-64Hz (switch-selectable)
- Fan on/off control (depending on charging current)
- Overload, short-circuit, reverse polarity, over voltage, over temperature protection
- Charger for lead acid batteries
- Size: 10.0"L x 5.3"W x 1.9"H • Weight: 3.3 lbs.

* Web Code: LAC



| Part No. | Mfr. Part No. | Watts | Boost Charge Voltage | Float Charge Voltage | Recommended Battery Capacity (AMP Hours) | Pricing | |
|----------|---------------|-------|----------------------|----------------------|--|---------|---------|
| | | | | | | 1 | 10 |
| 1954316 | PB-360N-24 | 360 | 28.8 | 27.2 | 40-125 | \$67.95 | \$64.95 |



Lead Acid Batteries

- Use with UPS backup systems, security fire alarms, wheel chairs, scooters
- Sealed • UL approved • Rechargeable
- One-year manufacturer warranty



| Part No. | Manufacturer | Mfr. Part No. | Nominal Voltage | Amp-Hrs. | Cross Reference | | | | Terminal Size | Size (L" x W" x H") | Wt. (lbs.) | Pricing | |
|----------|--------------|---------------|-----------------|----------|-----------------|----------|--------------|----------|----------------------|---------------------|------------|---------|---------|
| | | | | | Panasonic | YUASA | Eagle Picher | Tempest | | | | 1 | 10 |
| 264014 | Tysonic | TY-6-4.5 | 6 | 4.5 | LCR6VP | NP4-6 | CF16V4 | TR-4-6 | Quick connect 0.187" | 2.8 x 1.9 x 4.0 | 1.9 | \$11.95 | \$10.95 |
| 318844 | Tysonic | LA-TY-12-1.2 | 12 | 1.2 | — | — | — | — | Quick connect 0.187" | 3.8 x 1.7 x 2.1 | 1.3 | 15.95 | 13.95 |
| 264031 | Tysonic | TY-12-2.3 | 12 | 2.3 | LCR12V2.2P | NP2.3-12 | CF12V1.5 | TR2.3-12 | Quick connect 0.187" | 7.0 x 1.3 x 2.4 | 2.1 | 19.95 | 18.95 |
| 318924 | Tysonic | LA-TY-12-3.4 | 12 | 3.4 | — | — | — | — | Quick connect 0.187" | 5.3 x 2.7 x 2.4 | 3.1 | 20.95 | 19.95 |
| 264049 | Tysonic | TY-12-5 | 12 | 5.0 | — | — | — | — | Quick connect 0.187" | 3.5 x 2.7 x 3.9 | 3.6 | 21.95 | 20.95 |
| 264057 | Tysonic | TY-12-7.5 | 12 | 7.5 | LCR12V7.2BP | NP712 | CFM12V65 | TR7.5-12 | Quick connect 0.187" | 5.9 x 2.6 x 3.7 | 5.6 | 26.95 | 23.95 |
| 264065 | Tysonic | TY-12-12 | 12 | 12.0 | PS12120 | — | CFM12V12 | TR12-12 | Quick connect 0.187" | 5.9 x 3.9 x 3.7 | 9.0 | 47.95 | 42.95 |
| 264073 | Tysonic | TY-12-18 | 12 | 18.0 | LCR12V17BP | NPG18-12 | CF12V18 | TR18-12 | Quick connect 0.472" | 7.1 x 3.0 x 6.6 | 13.3 | 54.95 | 49.95 |
| 318852 | Tysonic | LA-TY-12-35 | 12 | 35.0 | — | — | — | — | Nut and bolt | 7.6 x 5.1 x 6.3 | 27.6 | 109.95 | 99.95 |
| 2170290 | CTC Battery | LFP128075* | 12.8 | 7.5 | — | — | — | — | Quick connect 0.25" | 5.9 x 2.6 x 3.9 | 2.66 | 109.95 | 99.95 |
| 2170329 | CTC Battery | LFP128198* | 12.8 | 19.8 | — | — | — | — | Nut and bolt | 7.1 x 3.0 x 6.5 | 6.84 | 279.95 | 259.95 |

* Lithium Iron Phosphate (LiFePO4), drop-in replacements for SLA batteries

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Battery Holders

| 3 LEVELS OF SAVINGS | | |
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| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

JAMECO ReliaPro Coin Cell, Single and Dual-Sided Battery Holders

Eliminate battery mounting problems in portable DC power applications and products. These holders are made from special materials that maintain retention properties longer than conventional holders. They can come with leads, tabs or snaps.



*Web Code: UAB

| Part No. | Cross Ref. No. | *Mfr. | Fig. | No. of Cells | Conn. (L") | Sides | Features* | 1 | 10 | 100 | 500 |
|----------|--------------------|-------|------|-----------------------|-------------|-----------|----------------------|--------|--------|--------|--------|
| 2236981 | 12-051 | JRP | 1 | 2-AAA | Pins, 2.5 | Single | Breadboard-ready | \$1.25 | \$1.09 | \$.99 | \$.89 |
| 216292 | SBH-421-AS* | JRP | 1 | 2-AAA | Wires, 5.5 | Single | w/ cover&sw, 26 AWG | 1.25 | 1.15 | .95 | .85 |
| 216283 | BH-421-1A | JRP | 1 | 2-AAA | Wires, 5.5 | Single | 26 AWG | .99 | .89 | .75 | .69 |
| 216303 | BH-431-1A | JRP | 4 | 3-AAA | Wires, 5.5 | Single | 26 AWG | 1.15 | 1.05 | .95 | .85 |
| 216312 | SBH-431-1AS* | JRP | 4 | 3-AAA | Wires, 6.0 | Single | w/ cover&sw, 26 AWG | 1.15 | 1.05 | .95 | .85 |
| 216339 | SBH-441-AS* | JRP | 5 | 4-AAA | Wires, 5.5 | Single | w/ cover&sw, 26 AWG | 1.59 | 1.45 | 1.29 | 1.15 |
| 2232833 | UM-4 | JRP | 5 | 4-AAA | PC mount | Single | .478" (12mm) spacing | 1.49 | 1.25 | 1.09 | .95 |
| 2197935 | BC-0302 | JRP | 2 | 1-AA/AAA | PC mount | Single | .3" (7.62mm) spacing | .29 | .25 | .19 | .17 |
| 216072 | BH-311-2A | JRP | 6 | 1-AA | Wires, 5.5 | Single | 26 AWG | .75 | .65 | .55 | .49 |
| 2222133 | 209. | KEY | 3 | 1-AA,AA,CR2,CR123A | Solder lugs | Single | Metal contact | .29 | .25 | .19 | .17 |
| 2222230 | 590 | KEY | 7 | 1-AA,AA,CR2,CR123A,9V | PC mount | Single | Metal contact | .25 | .17 | .12 | .10 |
| 216081 | BH-321-2A | JRP | 1 | 2-AA | Wires, 5.5 | Single | 26 AWG | .89 | .79 | .69 | .59 |
| 216099 | BH-321-4A | JRP | 1 | 2-AA | Wires, 5.5 | Single | w/ mnt. tabs, 26 AWG | .99 | .89 | .75 | .65 |
| 216102 | SBH-321-2A | JRP | 8 | 2-AA | Wires, 5.5 | Single | w/ cover, 26 AWG | 1.49 | 1.25 | 1.09 | .99 |
| 216120 | SBH-321-1AS* | JRP | 8 | 2-AA | Wires, 5.5 | Single | w/ cover&sw, 26 AWG | 2.19 | 1.95 | 1.75 | 1.49 |
| 2222176 | 5212 | KEY | 10 | 2-AA | Screwable | Single | Metal contact | .49 | .39 | .29 | .25 |
| 216136 | BH-331-A | JRP | 4 | 3-AA | Wires, 5.5 | Single | 26 AWG | 1.15 | 1.05 | .89 | .79 |
| 216144 | SBH-331-AS* | JRP | 11 | 3-AA | Wires, 6.0 | Single | w/ cover&sw, 26 AWG | 1.65 | 1.45 | 1.25 | 1.15 |
| 2238055 | PW-3AAA | BPS | 11 | 3-AA | Pins, 6.0 | Single | w/ cover & switch | 3.95 | 3.59 | 3.25 | 2.95 |
| 2207013 | 4XAA-2.1 | JRP | 2 | 4-AA | Plug, 5.0 | Single | 2.1mm plug, 22 AWG | 2.49 | 2.25 | 1.95 | 1.75 |
| 216152 | BH-341-2A | JRP | 12 | 4-AA | Wires, 5.5 | Single | 26 AWG | 1.19 | 1.09 | .99 | .89 |
| 105858 | BH-PC § | JRP | 13 | 4-AA | Wires, 5.5 | Single | w/ conn., 26 AWG | 1.25 | 1.15 | .99 | .89 |
| 216179 | BH-343-1A | JRP | 14 | 4-AA | Wires, 5.5 | Dual | 26 AWG | 1.39 | 1.25 | 1.15 | .99 |
| 2191883 | 12BH341-GR | EAG | 15 | 4-AA | Snaps | Dual | — | 1.15 | 1.05 | .89 | .79 |
| 216187 | SBH-341-1AS* | JRP | 5 | 4-AA | Wires, 6.0 | Single | w/ cover&sw, 26 AWG | 2.49 | 2.25 | 1.95 | 1.75 |
| 2095453 | SBH-341-1A | JRP | 5 | 4-AA | Wires, 5.5 | Single | w/ cover, 26 AWG | 1.59 | 1.45 | 1.29 | 1.15 |
| 216223 | BH-364-A | JRP | 16 | 6-AA | Wires, 5.5 | Single | 26 AWG | 1.69 | 1.49 | 1.35 | 1.19 |
| 2207021 | 6XAA-2.1 | JRP | 16 | 6-AA | Plug, 3.5 | Single | 2.1mm plug, 22 AWG | 3.95 | 3.59 | 3.19 | 2.89 |
| 2228455 | BH16AASF | MPD | 15 | 6-AA | Snaps | Dual | — | 1.19 | .99 | .85 | .69 |
| 216240 | BH-383-A | JRP | 17 | 8-AA | Wires, 6.0 | Dual | 26 AWG | 1.95 | 1.75 | 1.59 | 1.39 |
| 216267 | BH-383-B | JRP | 17 | 8-AA | Snaps | Dual | — | 1.95 | 1.75 | 1.59 | 1.39 |
| 216259 | BH-382-B | JRP | 18 | 8-AA | Snaps | Dual | — | 1.39 | 1.25 | 1.15 | .99 |
| 2260851 | SBH-381AS | JRP | 16 | 8-AA | Wires, 5.9 | Single | w/ cover&sw, 26 AWG | 3.95 | 3.59 | 3.25 | 2.95 |
| 2208243 | 12BH1/2AA-2P-GR | EAG | 20 | 1-½ AA | PC mount | Single | .8mm, 29mm apart | 1.15 | 1.05 | .89 | .79 |
| 216363 | BH-242-1A | JRP | 19 | 4-C | Wires, 5.5 | Single | 24 AWG | 1.39 | 1.25 | 1.15 | .99 |
| 216371 | BH-111-1A | JRP | 6 | 1-D | Wires, 5.5 | Single | 26 AWG | 1.15 | 1.05 | .89 | .79 |
| 2243920 | HHE BATTERY HOLDER | JRP | 33 | 1-D | 3/8" tab | Single | Modular | 1.95 | 1.75 | 1.59 | 1.39 |
| 216390 | BH-121-1A | JRP | 1 | 2-D | Wires, 5.5 | Single | 24 AWG | 1.39 | 1.25 | 1.15 | .99 |
| 216401 | BH-142-A | JRP | 19 | 4-D | Wires, 5.5 | Single | 24 AWG | 1.59 | 1.45 | 1.25 | 1.09 |
| 2128067 | SBH-9VAS* | JRP | 8 | 1-9V | Wires, 5.5 | Single | w/ cover&sw, 26 AWG | 1.69 | 1.49 | 1.35 | 1.19 |
| 2228447 | BC9VPC | MPD | 9 | 1-9V | PC mount | Single | Open holder | 1.49 | 1.35 | 1.19 | .99 |
| 2207048 | 1X9V-2.1 CS | JRP | 22 | 1-9V | Plug, 5.5 | Single | 2.1mm plug, 22 AWG | 3.59 | 3.25 | 2.95 | 2.59 |
| 216427 | BH-9V-A | JRP | 21 | 1-9V | Wires, 5.5 | Single | 26 AWG | .89 | .79 | .69 | .59 |
| 11280 | A104-R | JRP | 23 | 1-9V | Wires, 2.5 | Single | 26 AWG, snaps | .49 | .45 | .39 | .35 |
| 2191891 | 12BH079-GR | EAG | 24 | 1-9V | Screwable | Single | Metal holder, flat | .59 | .55 | .49 | .45 |
| 105794 | GBH-1009-R | JRP | 24 | 1-9V | Screwable | Single | Metal holder, side | .45 | .39 | .35 | .29 |
| 2191904 | 121-0426/IM-GR § | EAG | 25 | 1-9V | Wires, 4.0 | Single | w/ conn., 26 AWG | .99 | .89 | .79 | .69 |
| 1949488 | BAT-SNAP-4 | JRP | 26 | 1-9V | Wires, 3.5 | Single | 26 AWG, snaps | .49 | .39 | .35 | .29 |
| 109154 | BC6-R | JRP | 26 | 1-9V | Wires, 5.5 | Single | 26 AWG, snaps | .49 | .39 | .35 | .29 |
| 216452 | SBS-IR-1-R | JRP | 27 | 1-9V | Wires, 5.5 | Single | 26 AWG, snaps | .55 | .45 | .39 | .35 |
| 101470 | A102-R | JRP | 26 | 1-9V | Wires, 10.0 | Single | 26 AWG, snaps | .35 | .29 | .25 | .22 |
| 2207056 | 1X9V-2.1 SNAP | JRP | 23 | 1-9V | Plug, 5.5 | Single | 2.1mm plug, 24 AWG | 1.95 | 1.75 | 1.59 | 1.39 |
| 2203899 | 9VSNAP0B6 | JRP | 28 | 1-9V | Snaps | Single | PCB mount | .59 | .49 | .39 | .35 |
| 2146231 | BH-18650-2S | JRP | 29 | 2-18650 | Wires, 6.0 | Single | 26 AWG | 1.95 | 1.75 | 1.59 | 1.39 |
| 2258646 | AAA-BAT-054 | ADT | 30 | 1-0.79"Dia. max | 2-pin SMT | Coin cell | CR2032 battery | .89 | .79 | .75 | .65 |
| 236996 | 103 | KEY | 31 | 1-0.79"Dia. max | PC mount | Coin cell | CR2032 battery | 1.69 | 1.39 | 1.19 | 1.05 |
| 38543 | 2S2325 | JRP | 31 | 1-0.85"Dia. max | PC mount | Coin cell | CR2325 battery | .79 | .75 | .65 | .59 |
| 355434 | 17002-00603 | JRP | 32 | 1-0.79"Dia. max | PC mount | Coin cell | CR2325 battery | .75 | .69 | .59 | .55 |

§ 2 pin connector * SW = switch

* ADT = Arndt | BPS = Busboard Prototype Systems | EAG = Eagle Plastics | JRP = Jameco ReliaPro | KEY = Keystone | MPD = Memory Protection Devices



Test Equipment & Graphic Displays



Meters & Testers



★ Web Code: EMT

| Part No. | Manufacturer | Mfr. Part No. | Description | 1 | 5 |
|----------|--------------|---------------|---|---------|---------|
| 2130749 | Velleman | VTLAN4 | LAN tester, tests RJ-45, 10 Base-T, Token Ring, RJ11/12 cables | \$17.95 | \$15.95 |
| 14285 | BenchPro | RS232 | RS232 Line Tester, identifies simple interface problems on lines 2-6, 8, 11, 19, 20 | 8.95 | 7.95 |
| 2175445 | Velleman | DVM6013 | 3½-digit Capacitance Meter | 59.95 | 54.95 |
| 2206037 | Dawson | DDM30 | Smart SMD Tweezer Tester | 29.95 | 24.95 |
| 198678 | Extech | LCR Meter | Passive Component LCR Meter | 210.95 | 199.95 |
| 2075946 | P3 | P4400 | Kill-A-Watt® Energy Consumption Meter | 29.95 | 26.95 |



Function Generators



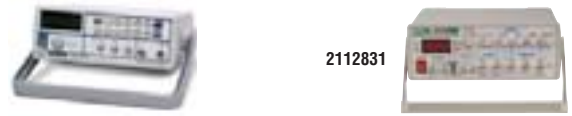
★ Web Code: DEJ

| Part No. | Manufacturer | Mfr. Part No. | Features | Bandwidth | # of Waveform Types | Size (in.) | Wt. (lbs.) | Includes* | Price |
|----------|--------------|---------------|---|-----------|---------------------|-------------------|------------|-----------|----------|
| 2160411 | Instek | SFG-1003 | DDS with FPGA design and 6-digit LED display | 3MHz | 4 | 9.9 x 3.6 x 11.5 | 4.6 | 1, 2, 3 | \$169.95 |
| 2112831 | SKMI | SK5200 | Rotary switch control w/ built-in 60MHz counter | 5MHz | 6 | 11.8 x 3.5 x 10.8 | 5.5 | 1, 3 | 209.95 |

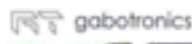
*1. Power cord 2. BNC cable 3. User's manual

2160411

2112831



Oscilloscopes



★ Web Code: RCG

| Part No. | Manufacturer | Mfr. Part No. | Bandwidth | Features | Size (in.) | Wt. (lbs.) | Includes | Price |
|----------|------------------|---------------|-----------|---|-------------------|------------|--|---------|
| 2205907 | Gobotronics | GT-0010 | 200kHz | Mixed signal plug-in DIP package, 2MSa/s, 0.96" OLED | 1.615 x 1.01 | 0.024 | Two 10-pin headers | \$49.95 |
| 2205915 | Gobotronics | GT-0005 | 200kHz | Mixed signal plug-in DIP package, 2MSa/s, 2.42" OLED | 3.3 x 1.75 | 0.065 | Two 10-pin headers | 69.95 |
| 2205931 | Gobotronics | GT-0015 | 200kHz | Mixed signal handheld, 2MSa/s, 2.42" OLED, 750mAh Li-Ion | 3.17 x 2.22 x 0.7 | 0.40 | Header, USB cable, 2 test clip leads | 117.95 |
| 2217393 | Seed Studio | TOL01241P | 200kHz | USB PC-based scope, 2.8" LCD display, built-in signal generator | 4.1 x 2.1 x 0.3 | 0.4 | Carrying case, stand, 2 grabbers, wrench | 99.95 |
| 2127339 | Velleman | HPS1401 | 10MHz | Handheld pocket size, 40MSa/s, hold/store function, autorange, 6 hours on single charge | 2.9 x 4.5 x 1.1 | 0.91 | NiMH rechargeable battery pack, test probe (x10), USB charger | 159.95 |
| 2187454 | Velleman | PCSU200 | 12MHz | USB PC-Based scope, function generator, transient recorder, bode plotter and spectrum analyzer | 3.9 x 3.9 x 1.4 | 0.54 | USB cable, user's manual | 149.95 |
| 2137422 | Velleman | PCSGU250 | 12MHz | All-in-One PC lab with o-scope, spectrum analyzer, recorder, function generator, bode plotter | 2.2 x 8.2 x 7 | 2.1 | Scope probe, BNC-to-RCA adaptor, USB cable, CD software, manual | 224.95 |
| 1536886 | SKMI | SK0404 | 40MHz | 2-Channel scope with built-in 5MHz function generator, 6" CRT display, 20Vp-p output | 15.7 x 5.2 x 12.8 | 23.8 | 2 test probes (x1/x10), BNC cable, AC cord, spare fuse | 469.95 |
| 2207259 | Link Instruments | MSO-28 | 60MHz | 10-channel PC based oscilloscope and logic analyzer | 4.0 x 2.4 x 0.8 | 0.88 | Power cord, BNC cable, user's manual | 324.95 |
| 2171655 | Uniteq | DS-1065 | 60MHz | 2-Channel, 500MSa/s, built-in delay sweep function, 320x240 pixel high-resolution 5.7" display, USB storage | 11.8 x 5.9 x 5.1 | 8.0 | 2 probes, DB9 cable, USB cable, power cord, user's manual, CD software | 549.95 |
| 2143401 | Instek | GDS-1152A-U | 150MHz | 2-Channel, 1GSa/s, 2Mpoint record length | 12.2 x 5.6 x 5.5 | 7.9 | Test probe, AC cord, user's manual | 599.95 |

Oscilloscope Probe Sets

- Input resistance at x10 ratio: 10MΩ
- Accessories may include: tips, ground lead, hooks, protection caps, trimmer screwdriver



★ Web Code: RAC



| Part No. | Manufacturer | Mfr. Part No. | Bandwidth | Attenuation Ratio | Description | Length (ft.) | 1 | 5 |
|----------|--------------|---------------|-----------|-------------------|---------------------------|--------------|---------|---------|
| 2130781 | Velleman | PROBE60S | 60MHz | 1:1 or 10:1 | IEC-1010 CAT II, 600V max | 4.0 | \$15.95 | \$14.49 |
| 2145342 | EZ Digital | T5060 | 60MHz | 1:1 or 10:1 | 300VDC max. | 4.0 | 22.95 | 20.95 |
| 22892 | BenchPro | LF101E | 60MHz | 1:1 or 10:1 | 600VDC max. | 5.0 | 24.95 | 22.49 |
| 2189880 | BenchPro | P6100* | 100MHz | 1:1 or 10:1 | 600VDC max. | 4.0 | 19.95 | 17.95 |
| 2130618 | Velleman | PROBE100 | 100MHz | 1:1 or 10:1 | IEC-1010 CAT II, 600V max | 4.0 | 24.95 | 22.95 |

*2 probes included



Customizable Multi-Function Capacitive Touchscreen Graphic Display

★ Web Code: PNP

- Eight digital input/output pins
- I2C, SPI, RS-485 and Ethernet support
- Connection: screw terminal and DIL

- Four 16-bit bipolar analog inputs (scalable in software to ±40V)
- Two alarm outputs (max current sink 10mA)
- Measurement range: 0-40VDC; 4-20mA

- RS232 serial interface
- Supply voltage: 4-30VDC
- User interface: USB

| Part No. | Mfr. Part No. | Description | Module Size (in.) | Price |
|----------|---------------|---------------------------------------|-------------------|----------|
| 2219305 | SGD 43-A | Multi-function 4.3" color TFT display | 4.7 x 3.1 x 0.8 | \$249.95 |



*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Digital Multimeters & Displays

See www.Jameco.com for complete specifications

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Velleman

DVM810



P/N 2131127
\$10.95

JAMECO BenchPro

DT830D



P/N 2230002
\$9.95

JAMECO BenchPro

DT182



P/N 2238397
\$10.95

MASTECH

MAS830L



P/N 220759
\$16.95

MASTECH

MAS838



P/N 2206061
\$34.95

EXTECH

MN35



P/N 645618
\$24.95

FLUKE

87-5



P/N 2113471
\$449.99

Dawson

DDM645



P/N 2208462
\$49.95

All meters come with probes/leads

* Web Code: HBK

| | | | | Basic Measurement Functions | | | | | | | |
|-----------------|-----------------------|------------------|---------------|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|---|
| Jameco Part No. | Manufacturer Part No. | No. of Functions | Display Count | Resolution (max DC) | DC Voltage Ranges (V) | AC Voltage Ranges (V) | DC Current Ranges (A) | AC Current Ranges (A) | Resistance Ranges (Ω) | Capacitance Ranges (F) | |
| 2131127 | Velleman DVM810 | 7 | 1999 | 1V | 200mV - 500V | 200mV - 500V | 200μA - 10A | — | 200Ω - 2MΩ | — | |
| 2230002 | BenchPro DT830D | 8 | 1999 | 1V | 200mV - 1000V | 200mV - 750V | 2000mA - 10A | — | 200Ω - 2MΩ | — | |
| 2238397 | BenchPro DT182 | 8 | 1999 | 100μV | 200mV - 500V | 200mV - 500V | 200mA - 10A | — | 200Ω - 2000kΩ | — | |
| 355207 | Velleman DVM850BL | 9 | 1999 | 100μV | 200mV - 100V | 200V - 600V | 200μA - 10A | — | 200Ω - 2MΩ | — | |
| 220759 | Mastech MAS830L | 9 | 1999 | 100μV | 200mV - 600V | 200V - 600V | 200μA - 10A | — | 200Ω - 2MΩ | — | |
| 2206061 | Dawson DDM640 | 9 | 2000 | 0.1mV | 200mV - 1000V | 200mV - 750V | 20μA - 10A | 20μA - 10A | 200Ω - 200MΩ | — | |
| 645618 | Extech MN35 | 10 | 1999 | 100μV | 200mV - 600V | 200mV - 600V | 200mA - 10A | — | 200Ω - 20MΩ | — | ← |
| 2230029 | Mastech MY61 | 10 | 1999 | 100μV | 200mV - 1000V | 200mV - 700V | 2mA - 10A | 2mA - 10A | 200Ω - 200MΩ | 2nF - 20μF | |
| 2113471 | Fluke 87-5 | 10 | 6000 | 10uV | 0 - 1000V | 0 - 1000V | 0 - 10A | 0 - 10A | 0 - 50M | 0 - 9999μF | |
| 185535 | Fluke 179 | 10 | 6000 | 100μV | 600mV - 1000V | 600mV - 1000V | 60mA - 10A | 60mA - 10A | 600Ω - 50MΩ | 1000nF - 9999μF | |
| 2208462 | Dawson DDM645 | 10 | 20,000 | 0.1V | 200mV - 1000V | 2V - 750V | 2mA - 10A | 2mA - 10A | 200Ω - 200MΩ | 20nF - 200μF | |
| 1581177 | Extech EX430 | 11 | 4000 | 100μV | .1mV - 1000V | .1mV - 750V | .1μA - 20A | .1μA - 20A | .1Ω - 40MΩ | .1nF - 100μF | |
| 645571 | Velleman DVM890F | 12 | 2000 | 100μV | 200mV - 1000V | 2V - 700V | 2mA - 10A | 20mA - 10A | 200Ω - 20MΩ | 2000pF - 20μF | |
| 645626 | Extech EX330 | 12 | 4000 | 100μV | .1mV - 1000V | .1mV - 750V | .1μA - 10A | .1μA - 10A | .1Ω - 40MΩ | .001nF - 200μF | |
| 211650 | Extech MN26T | 12 | 4000 | 100μV | 400mV - 600V | 400mV - 600V | 400μA - 10A | 400μA - 10A | 400Ω - 40MΩ | 4nF - 200μF | |
| 1537328 | Fluke 115 | 15 | 6000 | 100μV | 600mV - 600V | 600mV - 600V | 6A - 10A | 6A - 10A | 600Ω - 40MΩ | 1000nF - 9999μF | |
| 1537336 | Fluke 117 | 16 | 6000 | 100μV | 600mV - 600V | 600mV - 600V | 6A - 10A | 6A - 10A | 600Ω - 40MΩ | 1000nF - 9999μF | ← |
| 2206053 | Dawson DDM230B | 17 | 4000 | 0.1V | 0 - 600V | 0 - 600V | 0 - 10A | 0 - 10A | 0 - 10MΩ | 0 - 100μF | |

* With non-contact voltage detector (100-600VAC range)

† With backlight

§ Replacement K type thermocoupler probe (P/N 2228439)



Multi-Functional Graphics Display with Touch Screen Capabilities – Panel Pilot Series

* Web Code: PNP



The Panel Pilot Series is a range of color TFT graphics meters that users can program to display a variety of meter styles previously provided by a traditional panel meter. Available in 2.4", 2.8" and 3.5" sizes, the meters are programmable via USB interface with free Windows-based configuration software. Users can select

the type of meter style they want and personalize the display by selecting preferences in color, text and voltage input scaling. Once programming is complete, the user can save all selections to the meter and computer, detach the unit and mount in their panel as they would a standard display. The unit is supplied with an ever increasing number of programmable meter styles. A NEMA 6 rated version of the 2.4" display is available for more hostile environments. 4-20mA measurement versions in all sizes also available.

| Part No. | Mfr. Part No. | Description | Module Size (inch) | Connection | Supply Voltage | Measurement Range | User Interface | Price |
|----------|---------------|---|--------------------|----------------|----------------|-------------------|----------------|---------|
| 2115354 | SGD 24-M | Multi-function 2.4" color TFT display with 3½ digit, bargraph and analog style meter styles choices | 3.0 x 1.9 x 0.75 | Screw terminal | 4-30VDC | 0-40VDC | USB | \$89.95 |
| 2178275 | SGD 28-M | Multi-function 2.8" color TFT display with 3½ digit, bargraph and analog style meter styles choices | 3.4 x 2.3 x 0.80 | Screw terminal | 4-30VDC | 0-40VDC | USB | 99.95 |
| 2178267 | SGD 35-M | Multi-function 3.5" color TFT display with 3½ digit, bargraph and analog style meter styles choices | 3.7 x 3.0 x 0.90 | Screw terminal | 4-30VDC | 0-40VDC | USB | 179.95 |
| 2125149 | SGD 24-M420 | Multi-function 2.4" color TFT display with 3½ digit, bargraph and analog style meter styles choices | 3.0 x 1.9 x 0.75 | Screw terminal | 4-30VDC | 4-20mA | USB | 99.95 |
| 2137924 | SGD 35-M420 | Multi-function 3.5" color TFT display with 3½ digit, bargraph and analog style meter styles choices | 3.7 x 3.0 x 0.90 | Screw terminal | 4-30VDC | 4-20mA | USB | 121.95 |
| 2178291 | SGD 24-M-IP | Multi-function 2.4" color TFT display NEMA 6 rated for hostile environments | 3.0 x 1.9 x 0.75 | Screw terminal | 4-30VDC | 0-40VDC | USB | 144.95 |
| 2219292 | SGD ADPT-TC | Thermocouple add-on board for PanelPilot compatible displays, supplied with K-type probe | — | — | — | -200°C-1350°C | — | 34.95 |
| 2219305 | SGD 43-A | Multi-function 4.3" color TFT display w/ 8 digital I/O pins, 4 16-bit analog inputs & 4 PWM outputs | 4.7 x 3.1 x 2.5 | Screw Terminal | 4-30VDC | 0-40VDC, 4-20mA | USB | 249.95 |

Digital Multimeters & Panel Meters

FLUKE

179



P/N 185535
\$349.99

EXTECH

EX430



P/N 1581177
\$94.95

EXTECH

EX330



P/N 645626
\$59.95

Velleman

DVM890F



P/N 645571
\$44.95

EXTECH

MN26T



Pocket
Sized

P/N 211650
\$44.95

FLUKE

115



P/N 1537328
\$179.99

FLUKE

117



P/N 1537336
\$199.99

Fluke

DDM230B



P/N 2206053
\$59.95

| | | | | Test Functions | | | | Special Functions | | | | ★Web Code: HBK | | | |
|---|-----------------------|-------------------|--------------|----------------|--------------|-----------------|---------------------|-------------------|-----------------|---------------------|----------|---------------------|-----------------|---------|--------|
| | Frequency Ranges (Hz) | Temperature Range | | Diode Test | Battery Test | Continuity Test | Transistor hFE Test | Autorange | Analog Bargraph | RS-232 PC Interface | True RMS | Size (H" x W" x D") | Jameco Part No. | Pricing | |
| | | °C | °F | | | | | | | | | | | 1 | 5 |
| ➡ | — | — | — | ✓ | | | ✓ | | | | | 3.6 x 1.8 x 1.0 | 2131127 | \$10.95 | \$9.95 |
| | — | — | — | ✓ | | ✓ | ✓ | | | | | 5.0 x 2.7 x 1.7 | 2230002 | 9.95 | 8.95 |
| | 50 - 200kHz | — | — | ✓ | ✓ | ✓ | ✓ | | | | | 3.9 x 1.9 x 0.7 | 2238397 | 10.95 | 9.95 |
| | — | 0 to 40 | 0 to 104 | ✓ | | ✓ | ✓ | | | | | 5.4 x 2.7 x 1.2 | 355207 | 19.95 | 17.95 |
| | — | 0 to 40 | 0 to 104 | ✓ | | ✓ | ✓ | | | | | 5.7 x 3.0 x 1.4 | 220759 | 16.95 | 14.95 |
| | — | — | — | ✓ | | ✓ | ✓ | | | | | 7.7 x 3.7 x 2.2 | 2206061 | 34.95 | 31.95 |
| | — | -20 to 750 | -4 to 1382 | ✓ | ✓ | ✓ | | | | | | 5.4 x 3.0 x 1.5 | 645618 | 24.95 | 22.49 |
| | 2 - 20KHz | -20 to 1000 | -4 to 1832 | ✓ | | ✓ | ✓ | | | | | 7.4 x 3.5 x 1.2 | 2230029 | 29.95 | 26.95 |
| | 0 - 200K | -200 to 1090 | -328 to 1994 | ✓ | | ✓ | | | ✓ | | ✓ | 7.4 x 3.4 x 1.3 | 2113471 | 449.99 | — |
| | 99.99 - 99.99k | -40 to 400 | -40 to 752 | ✓ | | ✓ | | ✓ | ✓ | | ✓ | 7.3 x 3.5 x 1.7 | 185535 | 349.99 | — |
| | 20k | — | — | ✓ | | ✓ | ✓ | | | | | 2.2 x 3.7 x 7.7 | 2208462 | 49.95 | 44.95 |
| | .001 - 10M | -20 to 750 | -4 to 1382 | ✓ | | ✓ | | ✓ | | | ✓ | 7.4 x 3.2 x 2.0 | 1581177 | 94.95 | 89.95 |
| ➡ | — | -10 to 50 | -58 to 1832 | ✓ | | ✓ | ✓ | | | | | 6.7 x 3.5 x 1.5 | 645571 | 44.95 | 39.95 |
| | .001 - 10M | -50 to 1000 | -58 to 1832 | ✓ | | ✓ | | ✓ | | | | 5.7 x 2.9 x 1.6 | 645626 | 59.95 | 54.95 |
| | 10 - 10M | -40 to 250 | -40 to 482 | ✓ | | ✓ | | ✓ | | | | 4.8 x 2.4 x 1.6 | 211650 | 44.95 | 39.95 |
| | 99.99 - 50k | -10 to 50 | 14 to 122 | ✓ | | ✓ | | ✓ | ✓ | | ✓ | 6.3 x 3.3 x 1.9 | 1537328 | 179.99 | — |
| | 99.99 - 50k | -10 to 50 | 14 to 122 | ✓ | | ✓ | | ✓ | ✓ | | ✓ | 6.3 x 3.3 x 1.9 | 1537336 | 199.99 | — |
| | 0 - 5M | — | — | ✓ | | ✓ | | ✓ | | | | 5.8 x 3.0 x 1.6 | 2206053 | 59.95 | 54.95 |

Velleman

Analog Panel Meters

* Web Code: YBQ

- Includes mounting hardware
- 316507: Includes current shunt

| Part No. | Mfr. P/N | Range | Size (W" x H" x D") | 1 | 10 |
|----------|-----------|-----------|---------------------|--------|--------|
| 316603 | AVM6015 | 0 - 15VDC | 2.4 x 1.8 x 1.3 ... | \$9.95 | \$8.95 |
| 316671 | AVM7015 | 0 - 15VDC | 2.8 x 2.4 x 1.4 ... | 10.95 | 9.95 |
| 316638 | AVM6030 | 0 - 30VDC | 2.4 x 1.8 x 1.3 ... | 9.95 | 8.95 |
| 316654 | AVM7030 | 0 - 30VDC | 2.8 x 2.4 x 1.4 ... | 10.95 | 9.95 |
| 315301 | AIM60005 | 0 - 50µA | 2.4 x 1.8 x 1.3 ... | 8.95 | 8.95 |
| 316523 | AIM6050 | 0 - 50mA | 2.4 x 1.8 x 1.3 ... | 9.95 | 8.95 |
| 316558 | AIM60500 | 0 - 500mA | 2.4 x 1.8 x 1.3 ... | 9.95 | 8.95 |
| 316566 | AIM60500 | 0 - 5A | 2.4 x 1.8 x 1.3 ... | 10.95 | 9.95 |
| 316582 | AIM705000 | 0 - 5A | 2.8 x 2.4 x 1.4 ... | 10.95 | 9.95 |
| 316494 | AIM6010A | 0 - 10A | 2.4 x 1.8 x 1.3 ... | 9.95 | 8.95 |
| 316507 | AIM6030A | 0 - 30A | 2.4 x 1.8 x 1.3 ... | 13.95 | 12.49 |



316603



316523

* Digital Panel Meters — Enter Web Code GCG

* 7, 14 & 16-Segment Displays — Enter Web Code PBW

* Meters and Testers — Enter Web Code EMT

LASCAR

Drill Mountable Panel Meters

- Mount by simply drilling a single hole (7/32") & insert the threaded section of the panel meter
- Module size: 1.71"L x 0.84"W

| Part No. | Mfr. Part No. | Description | Digit Ht. | Supply Volt. | Measurement Range | 1 | 5 | 25 |
|----------|---------------|-------------------------------------|-----------|--------------|-----------------------|---------|---------|---------|
| 2113201 | EMV-1125 | 3½-digit, LCD volt/current meter | .50" | 7.5-15VDC | 200mV-20V/200µA-200mA | \$34.95 | \$32.95 | \$29.95 |
| 2095040 | EMV 1200 | 3-digit, signal pwrd, LCD voltmeter | .50" | 3-50VDC | 4-25VDC | 29.95 | 27.95 | 24.95 |
| 2095074 | EMC 1500 | 5-digit, LCD hour meter | .35" | 5-27VDC | 99999 hours | 34.95 | 31.95 | 28.95 |
| 2116584 | V1 | 3½-digit, LCD voltmeter | .25" | 7-12VDC | 200mV-20V | 17.95 | 17.49 | 16.95 |

* Web Code: WBU



* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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80,000-Count Benchtop Digital Multimeter

This benchtop multimeter not only provides voltage and current measurements, but also basic resistance, frequency, continuity and diode test functions.



- Large dual-display LCD with analog bar graph
- 50 measurement functions including capacitance, frequency, temperature
- 18 types of frequency up to 80MHz, with 0.1%-99% duty cycle
- Simultaneous measurement: (AC+DC, AC+Hz, DC+dBm, °C+°F, etc.)
- Auto data update and refresh, auto data hold, auto peak hold • RS-232 interface
- 36-hour dynamic record: MAG, MIN, AVG, MAX-MIN, setting upper & lower limit, timing measurement
- Size: 10.2"W x 8.7"D x 3.2"H

Includes: Test leads, thermocouple and user's manual

| Part No. | Mfr. Part No. | Wt. (lbs.) | Price |
|----------|---------------|------------|----------|
| 2145748 | DM-1150B | 3.1 | \$349.95 |



2.4GHz 2-Channel Frequency Counter

- 8-digit green LED display with annunciators
- Adjustable range and gate time
- Frequency ranges: 0.01Hz to 2.4GHz
- Gate time: 100 msec. to 10 sec.
- Channel A: DC coupled - 0.01Hz to 100Hz; AC coupled - 100Hz to 50MHz, sensitivity - 80mVrms, 1MΩ impedance
- Channel B: frequency range: 50MHz to 2.4GHz, sensitivity - 50mVrms, 50Ω impedance
- Size: 10.6"W x 8.5"D x 3.9"H
- Weight: 3.5 lbs.



| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|----------|----------|
| 1955968 | DVM13MFC2U | \$149.95 | \$134.95 |

Reconditioned Equipment 20MHz Industrial ScopeMeter®

Digital Scope, 15-Function Digital Multimeter & Recorder



The Fluke 123 is the ideal choice for troubleshooting industrial machinery, instrumentation, control and power systems. It automatically recognizes signal patterns and sets up correct triggering, timing and amplitude for stable displays.

- Same as new factory warranty
- Dual-input TrendPlot™ recorder
- Dual-input 40MHz or 20MHz digital oscilloscope
- Two 5000-count true-RMS digital multimeters
- 600V CAT III safety certified
- Optically-isolated interface for PC connection
- Up to 7 hours battery operation

Includes: Battery pack with charger and test leads



| Part No. | Mfr. Part No. | Price |
|----------|-----------------------------|------------|
| 162747 | 123/003R (without software) | \$1,195.00 |



20MHz & 30MHz 2-Ch Oscilloscope

- 6" rectangular CRT with internal graticule
- High sensitivity X-Y mode
- Sensitivity: 1mV/div
- Sweep magnification (x10)
- 400V maximum input voltage



Includes: User's manual, 2 spare fuses, power cord

| Part No. | Mfr. Part No. | Bandwidth | Price |
|----------|---------------|-----------|----------|
| 2218265 | OS-5020A | 20MHz | \$424.95 |

PC-Base Oscilloscope, Logic Analyzer and Pattern Generator

- 100MHz spectrum analyzer/FTF
- 200 MSA/s logic analyzer
- 100 Mpt/s pattern generator
- 60MHz bandwidth
- 2 GSA/s oscilloscope
- 8 logic analyzer inputs & 1 pattern generator



| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|----------|----------|
| 2207241 | MSO-19 | \$249.95 | \$234.95 |

2 Channel - DC to 20MHz Analog Oscilloscope w/ Function Generator

- Frequency Range: 1Hz to 1MHz
- 6" Rectangular CRT Display
- Resolution/Sensitivity: 1mV/div
- V Mode Switch: CH1, CH2, DUAL and ADD
- Vertical deflection and Sweep Magnification: X5



Functions Blocks:

- Display and Power
- Function Generator: Triangle, Sine, Square and TTL-level Square waves.
- Vertical Amplifier
- Sweep and Trigger

Basic Measurements:

- Single & Dual Trace Measurement
- Trigger Selection
- X-Y Measurements

Measurement Applications:

- Amplitude
- Phase Difference
- Dimension: 320mm (W) x 140mm (H) x 430mm (L)
- Operation: Output Frequency Adjustment & Waveform Selection, DC Output, and TTL Output
- Time Interval Frequency
- Rise Time

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|----------|----------|
| 2145246 | OS-5020G | \$549.95 | \$525.95 |



Oscilloscope Tutor Kit

This board generates a number of safe "real world" signals that can help you learn terms such as V/div, as well as the measurement quantities of AC, DC, frequency and more. Most experiments can be done with a digital or analog scope. Learn more about oscilloscopes with this Kit!



- Signals: alternating current (AC), adjustable AC, full wave and half-wave rectified AC, smoothed direct current (DC), ripple, astable oscillator
- No soldering required, assembled and tested
- Power supply: 9-12VAC, min. 100mA (recommend P/N 100061)
- Size 4.6"L x 2.9"W x 0.9"H

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 2175568 | EDU06 | \$29.95 | \$28.49 |



108W Desktop Power Supply

- Load regulation: ±2%
- Line regulation: ±5%
- Efficiency (typical): 81%
- Ripple & noise max.: 120mVp-p
- Front panel on/off switch and 3 color LED loading indicator
- Voltage adjustment range: 12-15VDC
- Input voltage: 88 132VAC/176-264VAC @ 47-63Hz (switch selectable)
- Short-circuit/overload/overvoltage/overtemperature protection
- Back panel 3-prong AC receptacle and banana plugs
- Size: 5.9"W x 5.5"D x 3.3"H • Weight: 3.3 lbs.



| Part No. | Mfr. Part No. | 1 | 10 |
|----------|---------------|---------|---------|
| 673230 | ESP-120-13.5 | \$45.95 | \$39.95 |



17MHz Logic Probe

- Maximum input frequency: 17MHz
- Minimum pulse width: 30ns
- Pulse flash time: 500ms
- Input impedance: 1MΩ
- Audible tones for high and low
- Power supply protection: ±20V
- TTL threshold: Lo = 0.8V ±0.2V, Hi = 2.3V ±0.2V
- CMOS threshold: Lo = 30% VCC, Hi = 70% VCC



| Part No. | Cross Ref. No. | 1 | 5 | 25 |
|----------|----------------|---------|---------|---------|
| 149930 | LP3500 | \$39.95 | \$36.95 | \$32.95 |

*Frequency Counters — Enter Web Code VCG



Logic Probe Kit

This kit will help you easily monitor digital signals, whether they are on or off. It tests digital circuits at various points to see if they are low, high, or constantly changing, which is perfect for troubleshooting several kinds of digital circuits including timers, clocks, counters and more.

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|--------|
| 662725 | EBLOG-300A | \$10.95 | \$9.95 |



4, 8 & 16-Channel Logic Analyzers

- Edge and pulse width trigger
- Digital max. sample rates (range): 1-500MSPS*
- Analog max. sample rates (range): 10-50MSPS*
- Digital bandwidth (range): 3-100MHz square wave*
- Analog bandwidth (range): 600kHz - 5MHz*
- Compatible with Windows®, Linux and MAC OS®

Includes: Logic analyzer, flexible test lead set, micro-hook clips, USB cable and custom carrying case



| Part No. | Description | Size (L" x W" x H") | Price |
|----------|-------------|---------------------|----------|
| 2217140 | 4-channel | 1.7 x 1.7 x 0.39 | \$104.95 |
| 2217131 | 8-channel | 2.1 x 2.1 x 0.46 | 219.95 |
| 2217123 | 8-channel | 3.6 x 3.6 x 0.59 | 474.95 |
| 2217115 | 16-channel | 3.6 x 3.6 x 0.59 | 598.95 |

*Dependent on logic analyzer and channel, available in red

Benchtop & Precision Power Supplies

Single Output Benchtop Power Supplies

- Voltage and current adjustable

* Web Code: SAX



301971



2145879



207635



207618

| Part No. | Mfr. | Mfr. Part No. | Voltage (VDC)/ Current (A) | Power (W) | Input Voltage (VAC) | Displays (Digits) | Short Circuit Protection | Overload Protection | Size (W" x H" x D") | Weight (lbs.) | Pricing | |
|----------|----------|---------------|-------------------------------|-----------|---------------------------|---------------------|-----------------------------|------------------------|------------------------|------------------|---------|---------|
| | | | | | | | | | | | 1 | 5 |
| 2130378 | Velleman | PS1503SBU | 15/3 | 45 | 220 @ 50Hz | 2-Digital LCD (3.5) | Yes | No | 8.4 x 6.0 x 3.8 | 6.7 | \$99.95 | \$89.95 |
| 301971 | Lascar | PSU130 | 30/1 | 30 | 100/240 @ 47-63Hz | 2-Digital LCD (4) | Yes | Yes | 5.5 x 1.6 x 5.2 | 1.2 | 99.95 | 89.95 |
| 2145879 | Uniteq | PS-1305 | 30/5 | 150 | 110/220 @ 50-60Hz | 2-Digital LED (3.5) | Yes | Yes | 6.5 x 5.1 x 13.0 | 12.3 | 214.95 | 194.95 |
| 207635 | Mastech | HY3010 | 30/10 | 300 | 115/230 ±10% (switchable) | 2-Digital LED (4) | Yes | No | 10.4 x 6.5 x 14.4 | 31 | 209.95 | 199.95 |
| 207618 | Mastech | HY3005C | 30/5 | 150 | 115 ±10% | 2-Analog | Yes | No | 5.4 x 6.2 x 11.5 | 14 | 139.95 | 129.95 |
| 301938 | BenchPro | HY3005 | 30/5 | 195 | 115/230 ±10% | 2-Digital LED | Yes | No | 11.5 x 5.25 x 6.25 | 10 | 149.95 | 134.95 |
| 207600 | Mastech | HY5005 | 50/5 | 250 | 115/230 ±10% (switchable) | 2-Digital LED (4) | Yes | No | 10.4 x 6.5 x 14.4 | 17 | 199.95 | 189.95 |



Multiple Output Benchtop Power Supplies

* Web Code: SAX

These benchtop power supplies are a must for every laboratory. They sit out of the way of your workspace and stay ready to supply power at all times. Single and multiple outputs are available for your specific laboratory needs. Standard banana input plugs provide easy connections and precision adjustment knobs provide exact power outputs for all your projects. For more information, visit www.Jameco.com.

- Voltage and current adjustable



211693



301962



301947



197991



197982



| Part No. | Mfr. | Mfr. Part No. | Voltage (VDC)/ Current (A) | Power (W) | Input Voltage (VAC) | Displays (Digits) | Short Circuit Protection | Overload Protection | Size (W" x H" x D") | Weight (lbs.) | Pricing | |
|----------|----------|---------------|-------------------------------|-----------|---------------------|---------------------|-----------------------------|------------------------|------------------------|------------------|----------|----------|
| | | | | | | | | | | | 1 | 5 |
| 211693 | BenchPro | HY3003D-2 | 0-30/3; 0-30/3 | 180 | 115/230 ±10% | 4-Digital LCD (3.5) | Yes | No | 10.4 x 6.5 x 14.4 | 28 | \$219.95 | \$199.95 |
| 2145861 | Uniteq | PS-3030DU | 0-30/3; 0-30/3 | 180 | 115/230 @ 50-60Hz | 4-Digital LED (3) | Yes | No | 9.2 x 6.3 x 12.8 | 16.5 | 369.95 | 334.95 |
| 301962 | Mastech | HY5003-2 | 0-50/3; 0-50/3 | 300 | 115/230 ±10% | 2-Digital LED (3.5) | Yes | No | 10.4 x 6.5 x 14.4 | 26 | 249.95 | 239.95 |
| 301947 | Mastech | HY3005D-2 | 0-30/5; 0-30/5 | 300 | 115/230 ±10% | 4-Digital LCD (3.5) | Yes | No | 10.4 x 6.5 x 14.4 | 26.5 | 279.95 | 249.95 |
| 2145828 | Uniteq | PS-2303 | 0-30/3; 0-30/3; 5/3 | 195 | 110-120 @ 50-60Hz | 4-Digital LED (3.5) | Yes | Yes | 9.6 x 5.5 x 13.6 | 17.6 | 324.95 | 299.95 |
| 301955 | Mastech | HY3005D-3 | 0-30/5; 0-30/5; 5/3 | 195 | 115/230 ±10% | 4-Digital LCD (3.5) | Yes | No | 10.4 x 6.5 x 14.4 | 29 | 299.95 | 279.95 |
| 2145810 | Uniteq | PS-3305 | 0-30/5; 0-30/5; 5/3 | 315 | 110/220 @ 50/60Hz | 4-Digital LED (3) | Yes | Yes | 9.6 x 5.5 x 13.6 | 22 | 424.95 | 399.95 |
| 2145799 | Uniteq | PS-3305 | 0-30/5; 0-30/5; 2.5, 3.3, 5/3 | 315 | 110/220 @ 50/60Hz | 4-Digital LED (3) | Yes | Yes | 11.8 x 5.83 x 8.66 | 22 | 489.95 | 439.95 |
| 197991 | Extech | 382213 | 0-30/3; 5/0.5; 12/0.5 | 98.5 | 110/120 @ 50-60Hz | 2-Digital LCD (3) | Yes | Yes | 6.0 x 5.6 x 9.5 | 11 | 199.95 | 179.95 |
| 197982 | Extech | 382203 | 0-30/3; 5/0.5; 12/0.5 | 98.5 | 110/120 @ 50-60Hz | 2-Analog | Yes | Yes | 6.0 x 5.6 x 9.5 | 11 | 154.95 | 139.95 |

Science Journal App Electronics Kit

Making and Science is an initiative at Google created to inspire future makers and scientists. This Jameco Electronics kit is designed to support the Making and Science experiments developed by Google and the Exploratorium. With the electronics kit, materials and guide, you will learn how to connect various sensors and build projects like a wind spinner and measure RPMs using the Science Journal app. The Arduino 101 has more memory than the Blend board, so if you will be expanding the programming, the Arduino 101 version is for you. Create hands-on activities and record data from sensors on your Android phone, like your own digital science notebook.

Requires Android phone and Science Journal app.



2244455



2239373

| Part No. | Mfr. Part No. | Description | Price |
|----------|---------------------------|--|---------|
| 2244455 | SCIENCEJOURNAL-ARD101ELEC | Electronics Science Journal kit - Includes 11 electronic components to use with Science Journal App, including Arduino 101 | \$64.95 |
| 2239373 | SICENCEJOURNAL-ARD101 | Deluxe Science Journal kit - Includes 19 electronic and arts and crafts accessories including Arduino 101 | 89.95 |
| 2239306 | SCIENCEJOURNAL-BLEND | Deluxe Science Journal kit - Includes 19 electronic and arts and crafts accessories including the Blend Micro Controller | 79.95 |

Activities Include:

- Wind Spinners Getting Ready: Create a unique structure that spins in the wind – then experiment with its rotation using the Science Journal app
- Getting Started with Light: Use the ambient light sensor to investigate the light around you
- Light instruments Designing and Building: Design and build a musical instrument that responds to changing light
- Getting Started with Sound: Use the microphone to investigate the sound around you • Getting Started with Motion: Use the accelerometers to investigate movement

Tilt Graph: • Tilt the phone and describe how position, speed and direction can draw shapes

- Use the Graph and Meter Modes in the Science Journal App to explore scale, slope and the relationships between data points and axi.

Conductivity Explorer:

- Make a circuit by drawing it out with a graphite pencil
- Use fruits, vegetables and water based fluids containing electrolytes
- Experiment and turn chemical energy into electrical energy
- Use the Sonification feature in the Science Journal App to make a playable music instrument

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



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Test Leads, Cables, Plugs, Clips & Posts

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Test Leads and Cables

Pomona
TEST EQUIPMENT

KEYSTONE

JAMECO BenchPro

WILLIAMS

NEW
MARKED IN PINK

★ Web Code: RAC






| | | | | | | | | |
|---|---|---|---|---|--|---|---|---|
|  |  |  |  |  |  |  |  |  |
| 2113877 | 176971 | 11422 | 176954 | 256832 | 2113869 | 2158477 | 2211055 | 212222 |

| Part No. | Manufacturer | Product No. | Description | Size (L') | 1 | 10 | 25 |
|----------|--------------|-----------------------|---|-----------|---------|---------|---------|
| 159871 | Pomona | 2249-C-36 | BNC male to male cable, RG58C/U, 50Ω, 20 AWG, black | 36 | \$18.95 | \$17.95 | \$16.95 |
| 2113877 | Pomona | 3957 | BNC male to Multi-Stacking banana plugs (2nd End) | 1.55 | 18.95 | 16.95 | 14.95 |
| 176971 | Pomona | 4532-C-36 | BNC male to Mini alligator clips w/ strain relief, RG58C/U, 50Ω, 20AWG, blk | 36 | 23.95 | 21.49 | 19.49 |
| 2218901 | BenchPro | 11384 | BNC male to alligator clips, RG58C/U, 18AWG, 1 black, 1 red | 20 | 4.95 | 4.49 | 3.95 |
| 11464 | BenchPro | 05-A-078-R | BNC male to Mini-clip test lead, RG174A/U, black | 39 | 5.49 | 4.95 | 4.49 |
| 11422 | BenchPro | 05-A-081-R | BNC male to Micro-clip test lead, RG174A/U, black | 39 | 5.49 | 4.95 | 4.49 |
| 2097150 | Pomona | 5187-C-36 | BNC male to MiniGrabber test leads, RG58C/U 50Ω, 20 AWG, black | 36 | 21.95 | 20.95 | 19.95 |
| 176954 | Pomona | 5187-K-36 | BNC male to MiniGrabber test leads, RG174/U 50Ω, 26 AWG, black | 36 | 33.95 | 29.95 | 26.95 |
| 256832 | BenchPro | CBB-069 | BNC female to pigtail, 20 AWG, 2 wire, 1 black, 1 red | 7 | 6.15 | 5.49 | 4.95 |
| 2097168 | Pomona | 4969 | BNC female to pigtail, 20 AWG, 2 wire, 1 black | 9 | 9.95 | 8.95 | 7.95 |
| 2097555 | BenchPro | CBB-070 | BNC male to pigtail, 20 AWG, 2 wire, 1 black, 1 red | 9 | 5.95 | 4.95 | 4.49 |
| 2113869 | Pomona | 3788 | BNC female Minigrabber test clips (2nd end) | 2.56 | 12.95 | 12.49 | 11.95 |
| 2113885 | Pomona | 5051 | BNC female to #8 spade lugs | 5.4 | 9.95 | 8.95 | 7.95 |
| 2158477 | BenchPro | FC16A | Probes w/ right angle banana, screw on alligator clips, 1 black, 1 red | 40 | 8.95 | 7.95 | 6.95 |
| 2211055 | Arndt | TP9238 | Probes, R/A with screw on alligator clip, 24 AWG, red/black | 36 | 6.95 | 6.25 | 5.49 |
| 212222 | Probe Master | 8043S | Softie test probe leads, 10-pc. set, interchangeable tips, 18 AWG, 1 blk, 1 red | 48 | 34.95 | 32.95 | 29.95 |
| 174625 | Probe Master | 8150 | Micro-tip test probe leads rt. angle (w/10 plunger type tips), 1 blk, 1 red | 39 | 44.95 | 42.95 | 39.95 |
| 168516 | BenchPro | GA-5010 | Universal test lead kit w/ 12 interchangeable tips, 1 black, 1 red | 36 | 9.95 | 8.95 | 7.95 |
| 2113914 | Pomona | 5953A | Adjustable tip test probe set, tip adjusts up to 3", 1 black, 1 red | 48 | 27.95 | 26.95 | 24.95 |
| 2212306 | Velleman | TLM4 | Banana plug, rt. angle to probe insulated leads, 1 black, 1 red | 48 | 2.75 | 2.49 | 2.25 |
| 155951 | Pomona | 5519A | Banana plug rt. angle to probe, insulated leads, 18 AWG 1 blk, 1 red | 48 | 18.95 | 16.95 | 14.95 |
| 77738 | BenchPro | GF19-R | Protected banana style multimeter test leads, 1 black, 1 red | 40 | 4.95 | 4.49 | 3.95 |
| 77746 | BenchPro | FC-15B-R | Standard banana style multimeter test probes, 1 black, 1 red | 42 | 6.95 | 6.25 | 5.59 |
| 10444 | BenchPro | GAL01 | Alligator clip test leads, 24 AWG (19/36), 10-pc. assorted colors | 21 | 5.95 | 5.39 | 4.79 |
| 2185483 | BenchPro | GAL02 | Alligator clip test leads, 24 AWG, 1 black, 1 red | 21 | 1.95 | 1.75 | 1.49 |
| 2210239 | BenchPro | GAL1016 | Alligator clip test leads, 16 AWG, 2 sets, 5 colors | 21 | 9.95 | 8.95 | 7.95 |
| 2210247 | BenchPro | GAL0216 | Alligator clip test leads, 16 AWG, 1 set (red/black) | 21 | 5.95 | 5.39 | 4.75 |
| 159901 | Pomona | B-24-02 | Stackable banana patch cords, 18 AWG, 1 black, 1 red | 24 | 11.95 | 11.49 | 10.95 |
| 159919 | Pomona | B-36-02 | Stackable banana patch cords, 18 AWG, 1 black, 1 red | 36 | 11.95 | 11.49 | 10.95 |
| 2208884 | BenchPro | CRF-TS0284TS-XX-250MM | Stackable banana patch cords, 16 AWG, 2 ea. (black,red,blue,white,yellow) | 9.8 | 24.95 | 22.95 | 19.95 |
| 77842 | BenchPro | CRF-TS0284TS-XX-330MM | Stackable banana patch cords, 16 AWG, 2 ea. (black,red,blue,white,yellow) | 13 | 27.95 | 24.95 | 22.49 |
| 1814137 | Pomona | 1166-12-0 | Alligator clip to stackable banana plug, 18 AWG, black | 12 | 6.95 | 6.25 | 5.59 |
| 1814145 | Pomona | 1166-12-2 | Alligator clip to stackable banana plug, 18 AWG, red | 12 | 6.95 | 6.25 | 5.59 |
| 2212293 | Velleman | TLM3 | Alligator clip to banana plug, 18 AWG* | 35.4 | 2.75 | 2.49 | 2.25 |
| 1814153 | Pomona | 1166-48-0 | Multi-stacking banana plug to alligator clip, black | 48 | 7.95 | 6.95 | 6.25 |
| 1814161 | Pomona | 1166-48-2 | Alligator clip to stackable banana plug, 18 AWG, red | 48 | 7.95 | 6.95 | 6.25 |
| 2218919 | BenchPro | ACBP-20AWG1000-RB | Alligator clip to stackable banana plug, 20AWG, 1 black, 1 red | 20 | 8.95 | 7.95 | 6.95 |
| 2224930 | BenchPro | GCA340-SM | Alligator clip to stackable double banana plug, 18AWG | 36 | 5.95 | 4.95 | 4.49 |
| 21857 | BenchPro | 05-A-082-R | Mini-clip to stackable banana test leads, black | 39 | 4.95 | 4.49 | 3.95 |
| 21865 | BenchPro | 05-A-079-R | Mini-clip to stackable banana test leads, red | 39 | 4.95 | 4.49 | 3.95 |
| 2189601 | BenchPro | 3782-36-02JVP | Mini-clip to stackable banana test leads, 1 black/ 1 red | 39 | 7.95 | 6.95 | 6.25 |
| 159899 | Pomona | 3782-36-02 | Mini-clip w/ stackable banana test leads, 20 AWG, 1 black, 1 red | 36 | 13.95 | 13.49 | 12.95 |
| 135299 | BenchPro | SF-207A-R | Mini-clip test leads, 26 AWG, 5 sets (blue, black, yellow, red, green) | 14 | 11.25 | 10.25 | 8.95 |
| 156495 | Pomona | 5523-R | MiniGrabber™ test clip patch cord, 20 AWG 10-pc. assorted colors | 24 | 49.95 | 44.95 | 39.95 |
| 155985 | Pomona | 2708B | 9 slot test lead holder, accepts RG213 & RG214 wire sizes (blue) | 11 | 15.95 | 14.49 | 12.95 |
| 155977 | Pomona | 4408 | 10 slot test lead holder, accepts RG59 & RG108 wire sizes (black) | 11 | 11.95 | 11.49 | 10.49 |
| 155969 | Pomona | 1508 | 14 slot test lead holder, accepts RG58 & RG142 wire sizes (orange) | 11 | 14.95 | 13.95 | 12.95 |

*Black, red, yellow

Test Clips, Plugs and Posts

★ Web Code: TLC

| | | | | | | | | |
|---|---|---|---|---|--|---|---|---|
|  |  |  |  |  |  |  |  |  |
| 71240 | 77691 | 1818787 | 2127742 | 2205755 | 1582170 | 2168528 | 125197 | 2144024 |

| Part No. | Manufacturer | Product No. | Description | Size (in.) | 1 | 10 | 100 |
|----------|--------------|-------------|--|-------------------|--------|--------|--------|
| 71240 | BenchPro | GIP-003-R | Binding post, screw type, chassis mount 1 black, 1 red | 1.0 L x .50 Dia. | \$2.05 | \$1.75 | \$1.49 |
| 77691 | BenchPro | GIP-001-R | Binding post, screw type, chassis mount 1 black, 1 red | 1.8 L x .50 Dia. | 1.95 | 1.75 | 1.49 |
| 1818779 | Pomona | 3760-0 | Binding post, accepts banana, wire, or spade lug, black | 1.78 L x .44 Dia. | 4.49 | 3.95 | 3.59 |
| 1818787 | Pomona | 3760-5 | Binding post, accepts banana, wire, or spade lug, green | 1.78 L x .44 Dia. | 4.49 | 3.95 | 3.59 |
| 2127742 | Pomona | 3760-2 | Binding post, accepts banana, wire, or spade lug, red | 1.78 L x .44 Dia. | 3.95 | 3.69 | 3.35 |
| 2205755 | BenchPro | WTA-60R-4PK | Binding post 4-pack, chassis mount, red/black/green/yellow | 1.1 L x .30 Dia. | 3.95 | 3.59 | 3.29 |

| | |
|---|---|
|  |  |
| 72195 | 137526 |

Test Clips, Plugs & Posts continued on next page

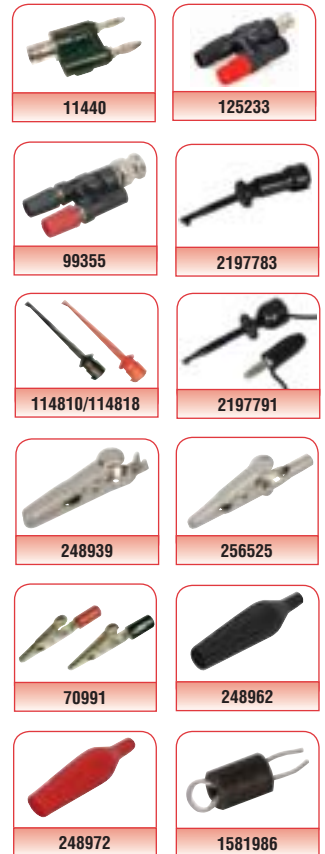
Test Clips, Plugs, Posts & Tool Kits

Test Clips, Plugs and Posts (Continued)

More images on previous page

* Web Code: TLC

| Part No. | Manufacturer | Product No. | Description | Size (in.) | 1 | 10 | 100 |
|----------|--------------|--------------|---|--------------------|--------|--------|--------|
| 2215443 | Pomona | 5935-0 | Banana jack chassis mount, .079 solder tab black | .680 L x .260 Dia. | \$.69 | \$.59 | \$.49 |
| 1582188 | Keystone | 6092 | Banana jack, chassis mount, 0.182" solder tab, black | .937 L x .433 Dia. | 1.49 | 1.29 | 1.15 |
| 1582170 | Keystone | 6091 | Banana jack, chassis mount, 0.182" solder tab, red | .937 L x .433 Dia. | 1.49 | 1.25 | 1.09 |
| 2168528 | BenchPro | 0584-BLK | Banana jack, chassis mount, solder tab, tin-plated, black | 0.91 L x .43 Dia. | 1.49 | 1.25 | 1.09 |
| 2168536 | BenchPro | 0584-RED | Banana jack, chassis mount, solder tab, tin-plated, red | 0.91 L x .43 Dia. | 1.49 | 1.25 | 1.09 |
| 125197 | BenchPro | GBRR2-R | Screw mount double binding/banana post, black/red | 1.6 L x 1.4 W | 4.15 | 3.75 | 2.95 |
| 2144024 | Pomona | 6883 | Dual binding posts with base | 1.9 L x .17 Dia. | 2.69 | 2.49 | 2.29 |
| 72195 | BenchPro | GBP205-R | Set screw banana plug, 1 black, 1 red | 1.6 L x .40 Dia. | 2.09 | 1.79 | 1.59 |
| 137526 | BenchPro | HP-2234P-R | Set screw banana plug, 1 black, 1 red | 2.3 L x .30 Dia. | 3.95 | 3.59 | 3.29 |
| 159855 | Pomona | 1325-02 | Solderless stackable banana plug w/ set screw, 1 black, 1 red | 1.55 L x .17 Dia. | 3.95 | 3.59 | 3.29 |
| 159863 | Pomona | 1825-02 | Solderless stackable banana plug w/ safety collar, 1 black, 1 red | 4.59 L x .39 Dia. | 4.95 | 4.59 | 4.25 |
| 159927 | Pomona | MDP-02 | Solderless stackable dbl banana plug, w/ wire guide, red (set of 2) | 1.55 L x 1.18 W | 7.95 | 6.95 | 6.25 |
| 11440 | BenchPro | 03-701A-R | BNC female to standard double banana plug, black | 2.03 L x 1.7 W | 4.95 | 4.49 | 3.95 |
| 125233 | BenchPro | GB1BN2 | BNC female to double binding/banana posts, black | 2.14 L x 1.8 W | 5.95 | 5.49 | 4.95 |
| 99355 | BenchPro | GB2BN2 | BNC male to double binding/banana posts, black | 2.35 L x 1.7 W | 5.95 | 5.49 | 4.95 |
| 153163 | BenchPro | SF-207-BL-R | Micro test clip, 1 blue | 1.7 L | .49 | .45 | .39 |
| 2197783 | BenchPro | XM-BLK | Micro test clip, 1 black | 1.5 L | .49 | .45 | .39 |
| 114810 | BenchPro | G2P004-R | Micro test clip, 1 red, 1 black | 1.7 L | 1.95 | 1.75 | 1.59 |
| 114818 | BenchPro | G2P002-R | Mini test clip, 1 black, 1 red | 3.5 L | 3.25 | 2.95 | 2.49 |
| 2197791 | BenchPro | 201W36BLK | Mini grabber test clip to banana plug, 3' black | 2.18 L / 1.45 L | 1.95 | 1.75 | 1.49 |
| 248921 | BenchPro | SF101CP-R | Mini alligator clip, solder/crimp (set of 2) | 1.2 L x .30 W | .49 | .45 | .39 |
| 248939 | BenchPro | SF-103CP-R | Mini alligator clip, solder/crimp (set of 2) | 1.6 L x .30 Dia. | .55 | .49 | .45 |
| 256525 | BenchPro | SF105B-R | Alligator clip, barrel/screw, 2" (set of 2) | 2.0 L x .20 Dia. | .69 | .65 | .49 |
| 2178081 | Pomona | 5250 | 8-pin SOIC gold plated test clip | 1.73 L x .43 W | 14.95 | 13.49 | 11.95 |
| 70991 | BenchPro | GIP006-R | Insulated alligator clips, 1 black, 1 red | 2.3 L x .50 W | .65 | .59 | .55 |
| 2215654 | BenchPro | SLV-1.2-R | Red insulator sleeve for P/N 248921 (set of 2) | 1.3 L x .30 Dia. | .19 | .15 | .12 |
| 2215662 | BenchPro | SLV-1.2-BK | Black insulator sleeve for P/N 248921 (set of 2) | 1.3 L x .30 Dia. | .19 | .15 | .12 |
| 248962 | BenchPro | SF-103SV-BK | Black insulator sleeve for PNs 248939 & 256525 (set of 2) | 2.1 L x .20 Dia. | .39 | .29 | .25 |
| 248972 | BenchPro | SF103SV-RD-R | Red insulator sleeve for PNs 248939 & 256525 (set of 2) | 2.1 L x .20 Dia. | .39 | .29 | .25 |
| 1581986 | Keystone | 5001 | PCB mini test point, looped, black, 0.100ID eyelet | .30 L x .09 Dia. | .35 | .29 | .25 |
| 2168430 | Grip-On | 37128 | 28-pc. electrical clip kit, alligator clips and charging clips | Various | 5.95 | 5.29 | 4.69 |



Jameco BenchPro 26-Piece SAE Hobby Tool Set

- 4-1/2" long nose pliers
- 4-1/2" diagonal cutting pliers
- #1 & #2 Phillips bits*
- #1 & #2 pozi bits*
- 3/16" & 1/4" slotted bits*
- Hex to 1/4" driver adapter*
- Compact carrying case
- T-10, T-15, and T-20 Torx bits*
- Driver handle
- 3" extension bar for 1/4" drive
- Tweezers
- 3 slotted and 3 screw driver precision set
- 3/16", 1/4", 11/32" and 3/8" sockets for 1/4" drive
- Size: 12.0"L x 9.0"W x 2.0"H
- Weight: 1.5 lbs.

| Part No. | Description | 1 | 5 | 25 |
|----------|---|---------|---------|---------|
| 170069 | 26-pc. SAE tool set | \$14.95 | \$13.49 | \$11.95 |
| 2231321 | 10-pc. SAE bit set w/ listed items above* | 4.95 | 4.49 | 3.95 |

Jameco BenchPro 40-Piece Electronic Tech Tool Kit

- Kit includes:
- Wire cutters/stripper
- Adapter bit for sockets
- Pocket clip screwdriver
- 10-pc screwdriver set
- Torx screwdriver bits – T10-T25 reversible
- Potentiometer alignment tools
- 3/16"-1/2" S.A.E. nut driver sockets
- 6mm-12mm metric nut driver sockets
- Slotted and Phillips screwdriver bits
- Extra long 3-claw parts holder
- IC inserter with pin straightener
- IC extractor
- Size: 9.5"L x 6.8"W x 1.4"H
- Weight: 1.7 lbs.

| Part No. | Description | 1 | 5 | 25 |
|----------|-------------------|---------|---------|---------|
| 119183 | 40-piece tool kit | \$24.95 | \$22.49 | \$19.95 |

65-Piece Master Electronics Tool Kit

Simply every tool needed for field repair or installation, all in a handsome lockable case with room for spare parts or special equipment.

- Kit includes:
- 7 pliers
- Storage box
- Wrench
- 3-piece soldering aid kit
- Soldering iron with stand and sponge
- 10-piece screwdriver set
- Brush
- Crimping tool
- Oil can
- Desolder wick
- 6-piece screwdriver set
- Desolder pump
- Testing screwdriver
- 5-piece file set
- IC extractor
- Flashlight
- Alignment tool
- 6-piece wrench set
- 7-piece hex set
- 3-prong holder
- Hammer
- Tweezers
- Measuring tape
- Heat sink
- Scissors
- Solder core
- PVC insulated tape
- Utility knife (3 blades)
- Part tube
- Carrying case has two removable pallets, adjustable compartments, and combination locks
- Size: 18.0"W x 13.0"D x 4.0"H
- Weight: 16.9 lbs.

| Part No. | Description | 1 | 5 |
|----------|-------------------|----------|----------|
| 218245 | 65-piece tool kit | \$169.95 | \$154.95 |

Jameco BenchPro Aluminum Tool Case

Lightweight aluminum, this tool case is designed to take rough field use.

- Size: 19.0"L x 14.0"W x 6.0"H
- Includes: Tool pallet, egg carton foam lid and 2.5" thick pre-cut foam bottom

| Part No. | Description | 1 | 5 |
|----------|---------------------|---------|---------|
| 261877 | Tool/equipment case | \$49.95 | \$44.95 |

Jameco BenchPro 95-Piece Pro-Tech Tool Kit

- Kit includes:
- Navy blue storage box
- 7-piece hex key set
- 5-piece needle file set
- 10-piece wrench set
- 8 different pliers
- 6-piece precision screwdriver set
- 29-pc. socket wrench set
- Hammer
- Wire stripper/crimper
- 30W soldering iron
- Cushion grip screwdrivers
- Plastic flip-top box
- Inspecting mirror
- Cleaning brushes
- Tape measure
- Aluminum flashlight
- Digital multimeter
- Mini drill with drill bits
- Lead-free solder core
- Mini hobby vise
- Desolder pump
- Elastic wrist strap
- 6" chrome-plated wrench
- IC extractor
- Stainless steel tweezer
- Electrical tape
- Size: 18.4"L x 13.4"W x 6.4"H

| Part No. | Description | Wt. (lbs.) | Price |
|----------|-------------------|------------|----------|
| 2153756 | 95-piece tool kit | 20.6 | \$199.95 |

* Tool Kits — Enter Web Code CAA

SINGLE CHASSIS MOUNT BINDING POSTS FOR BREADBOARDS

Binding posts now sold in singles for your replacement part needs.

- Screw type

| Part No. | Color | 1 | 10 | 224447 |
|----------|-------|--------|--------|--------|
| 2244439 | Black | \$1.35 | \$1.19 | |
| 2244447 | Red | 1.35 | 1.19 | |
| 2244308 | Black | 1.25 | 1.09 | |
| 2244295 | Red | 1.25 | 1.09 | |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
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Crimpers, Strippers, Cutters & Miscellaneous Tools

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Xcelite

JAMECO
BenchPro

H

Pro's Kit

Wire Cutters/Strippers/Crimpers

EXIMCORP

PresKit

*Web Code: GBU



179902



2123320



35482



146712



2112292



159185



114535



78992



215889



159274



2112284



159291



99443



161218



175098



18797



2153078



2192376

| Part No. | Manufacturer | Mfr. P/N | Description | Functions | | | Size (L" x W") | Pricing | |
|----------|--------------|----------|--|-----------|-------|-------|----------------|---------|--------|
| | | | | Cut | Strip | Crimp | | 1 | 5 |
| 179902 | BenchPro | GPL-171 | 4" leaf spring cutters w/ flush side cutting, forged steel, cushion grip | ✓ | | | 4.0 x 2.6 | \$3.95 | \$3.59 |
| 2123320 | BenchPro | GPL-101 | 4.5" spring return cutters w/ flush side cutting, carbon steel, vinyl grip | ✓ | | | 4.5 x 2.6 | 4.95 | 4.49 |
| 35482 | BenchPro | AX103 | 4.3" Diagonal wire cutters, rubber handles, 0.5" cutting blade, 45° angle | ✓ | | | 4.3 x 2.1 | 7.95 | 6.95 |
| 2203750 | Plato | 175LX | 5.6" Ergonomic, ESD-safe shear lead cutter with guard, blue grips | ✓ | | | 5.6 x 2.0 | 7.95 | 6.95 |
| 146712 | Xcelite | 170M | 5" general purpose shearcutters, flush cutting, red cushioned grips | ✓ | | | 5.0 x 2.5 | 9.95 | 8.95 |
| 161411 | Pro's Kit | 1PK-717 | 5" Diagonal wire cutters, insulated handles, cuts 0.08mm fine wire | ✓ | | | 5.0 x 1.8 | 6.95 | 6.25 |
| 217921 | Xcelite | MS54J | 4" oval head-flush diagonal cutters, flush cut, green cushioned grips | ✓ | | | 4.3 x 1.8 | 22.95 | 20.95 |
| 217904 | Xcelite | MS549JV | 4" tapered head diagonal cutters, flush cut, green cushioned grips | ✓ | | | 4.2 x 1.8 | 23.95 | 21.49 |
| 2112292 | BenchPro | TTK-061 | UTP/STP wire stripper, 3-24 AWG, shielded/unshielded/twisted pair cable | | ✓ | | 3.5 x 1.3 | 1.95 | 1.75 |
| 159185 | Hanlong | HT-332D | 2-blade rotary coax cable strippers, 4 settings for cable sizes 4-12mm | | ✓ | | 3.9 x 0.7 | 11.95 | 10.95 |
| 114535 | Hanlong | HT-336G | Ratcheted BNC crimper, for RG58, RG59, RG62, RG174, and fiber optic | | | ✓ | 8.5 x 2.5 | 25.95 | 23.49 |
| 78992 | Hanlong | HT-108 | 5" cutter/strippers, 10-30 AWG, spring return, screw-adjustable wire gauge | ✓ | ✓ | | 5.0 x 3.0 | 5.95 | 5.49 |
| 215889 | BenchPro | JE-2022C | 5" cutter/strippers, 10-24 AWG, spring return, dial to adjust wire gauge | ✓ | ✓ | | 5.0 x 3.0 | 5.95 | 4.95 |
| 159274 | Hanlong | HT-1091 | 5" cutter/strippers, 20-24 AWG, spring-loaded, insulated grips, 45° angle | ✓ | ✓ | | 5.0 x 3.0 | 4.95 | 4.49 |
| 2112284 | BenchPro | GTA-002 | Automatic wire strippers, 10-24 AWG, spring-loaded handle w/ wire stopper | ✓ | ✓ | | 6.8 x 3.2 | 9.95 | 8.95 |
| 159291 | Hanlong | HT-5023 | 6.6" cutter/strippers, 20-30 AWG, cuts steel wire, scale markings in AWG/mm | ✓ | ✓ | | 6.6 x 2.0 | 10.95 | 9.95 |
| 99443 | Hanlong | HT-202A | Non-insulated terminal crimper, for D-sub and non-insulated connectors | ✓ | | ✓ | 7.3 x 1.5 | 9.95 | 8.95 |
| 159266 | Hanlong | HT-213 | D-sub crimper, crimps D-sub pins and sockets, works with 20-28 AWG wire | ✓ | | ✓ | 7.0 x 4.0 | 15.95 | 14.49 |
| 161218 | Ideal | 45-121 | 6" cutter/strippers, strips 16-26 AWG stranded, 14-24 AWG solid, plier nose | ✓ | ✓ | | 6.0 x 2.0 | 17.95 | 15.95 |
| 175098 | BenchPro | GTA-006H | Automatic strippers, 8-22 AWG, spring-loaded handle with wire stopper | ✓ | ✓ | | 7.0 x 3.5 | 18.95 | 16.49 |
| 18797 | Hanlong | HT-1041 | 7-in-1 wire-handling tool, 10-18 AWG, steel wire cutter, wire loop, red | ✓ | ✓ | ✓ | 6.6 x 3.0 | 6.95 | 6.25 |
| 127862 | Hanlong | HT-1042 | 7-in-1 wire-handling tool, 16-26 AWG, steel wire cutter, wire loop, blue | ✓ | ✓ | ✓ | 6.6 x 3.0 | 7.95 | 6.95 |
| 127871 | Hanlong | HT-1043 | 7-in-1 wire-handling tool, 22-30 AWG, steel wire cutter, wire loop, orange | ✓ | ✓ | ✓ | 6.6 x 3.0 | 7.95 | 6.95 |
| 2153078 | BenchPro | GRK-42N | 8.5" cutter/crimper/stripper, ergonomic grip, 10-22 AWG, wire gauge markings | ✓ | ✓ | ✓ | 8.5 x 3.0 | 5.95 | 5.49 |
| 2192376 | BenchPro | HT-N5684 | 7.5" modular crimping tool, 8P8C/RJ45, 6P6C/RJ12, 6P4C/RJ11, 4P4C and 4P2C | ✓ | ✓ | ✓ | 7.5 x 3.0 | 15.95 | 14.49 |

Test/Tools

JAMECO
BenchPro

100-Piece Professional Electronics Tool Kit

- Kit includes:
 - Soldering iron
 - 12 screwdrivers
 - 7-piece hex key set
 - Extractor
 - 4 Pliers
 - Adjustable wrench
 - Crimper/Stripper
 - 6-piece screwdriver set
 - 3-piece soldering aid kit
 - Flashlight
 - Multimeter
 - Tweezers
 - 5-piece file set
 - Desoldering pump
 - Voltage tester
 - Vacuum cleaner
 - Cordless screwdriver kit (bits included)
 - Aluminum case features removable pallets, surface-type locks, and black plastic handle
 - Size: 18.0"L x 14.0"W x 6.0"H • Weight: 20 lbs.



| Part No. | Description | 1 | 5 |
|----------|--------------------|----------|----------|
| 242851 | 100-piece tool kit | \$159.95 | \$149.95 |

116-Piece Tech Service Tool Kit

- Kit includes:
 - Storage box
 - 8 pliers
 - Spring hook
 - 3-piece soldering aid kit
 - Desoldering pump
 - 3-piece alignment tool set
 - Diagonal cutter
 - Soldering iron
 - Forceps
 - 9-piece screwdriver set
 - Wire stripper
 - 5-piece file set
 - Flashlight
 - 3-prong holder
 - PVC insulated tape
 - Heat sink
 - Measuring tape
 - 6-piece electronic screwdriver set
 - 40-piece socket & screwdriver set
 - 10-piece electronic wrench set
 - Size: 18.5"L x 13.8"W x 6.7"H • Weight: 22.8 lbs.

PresKit



| Part No. | Description | 1 | 5 |
|----------|--------------------|----------|----------|
| 149024 | 116-piece tool kit | \$299.95 | \$289.95 |

molex Hand Tools for Mini-Fit™ Jr.



- 304928:**
 - Accepts wire range from 14-24 AWG
 - Insulated small handle spread design
 - Great for open-barrel terminals
- 304936:**
 - For the removal of Mini-Fit Jr™ crimped terminals series from their housings

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|-----------------|---------|---------|
| 304928 | 63811-1000 | Crimp tool | \$54.95 | \$49.95 |
| 304936 | 11-03-0044 | Extraction tool | 27.95 | 24.95 |

*Crimping Tools — Enter Web Code GBU

*Tool Kits — Enter Web Code CAA

JAMECO
BenchPro

Pocket Screwdriver

Phillips & Flat head

*Web Code: CAQ

- Pen clip for pocket storage



| Part No. | Description | 1 | 10 | 100 |
|----------|------------------------|--------|--------|--------|
| 127271 | 6"L pocket screwdriver | \$1.95 | \$1.59 | \$1.39 |

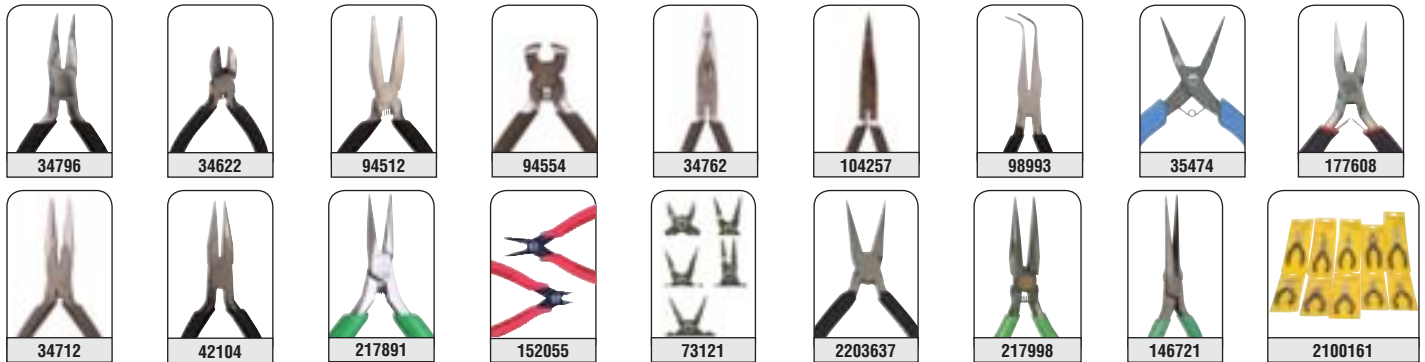
Pliers, Drill Bits, Mini Drill & Stand

Xcelite[®] EXIMCORP

JAMECO BenchPro

Pliers

*Web Code: XPC



| Part No. | Manufacturer | Mfr. Part No. | Description | Length | 1 | 5 |
|----------|--------------|---------------|---|-------------|--------|--------|
| 34796 | Eximcorp | BN2497 | Bent oval diagonal nose pliers with smooth jaws, forged steel, heat-treated, spring-loaded, insulated grips* | 4.5" | \$3.95 | \$3.59 |
| 34622 | Eximcorp | ES2494 | Diagonal tapered spring loaded cutters, heat-treated, forged steel, insulated handle* | 4.5" | 3.95 | 3.59 |
| 94512 | Eximcorp | SN2468 | Straight square nose pliers with serrated jaws, forged steel, heat-treated, spring-loaded, insulated grips* | 5.5" | 4.95 | 4.49 |
| 94554 | Eximcorp | NP2491 | Standard nipper nose pliers, spring-loaded, forged steel, heat-treated, insulated grips* | 4.25" | 3.95 | 3.49 |
| 34762 | Eximcorp | BNC2493 | Standard bent oval nose pliers with cutters, serrated jaws, forged steel, heat-treated, insulated grips* | 7.0" | 4.95 | 4.49 |
| 104257 | Eximcorp | SP2460 | Curved flat nose with smooth jaws, square pliers, forged steel, heat-treated, insulated grips* | 8.0" | 4.95 | 4.49 |
| 98993 | Eximcorp | SBP2459 | Bent square flat nose with smooth jaws, forged steel, heat-treated, insulated grips* | 7.5" | 5.95 | 5.39 |
| 35474 | BenchPro | GPL-204-R | Flat long nose, stainless steel, spring return, durable rubber handles, knurled jaws | 5.3" | 5.95 | 5.39 |
| 177608 | BenchPro | GPL-172 | Half round long nose with cutters, drop forged steel, heat treated, spring return, vinyl grips, knurled jaws | 4.5" | 5.95 | 5.39 |
| 34712 | Eximcorp | SN2482 | Needle oval nose pliers with cutters and serrated jaws, forged steel, spring-loaded, heat-treated, insulated grips* | 5.25" | 5.95 | 5.39 |
| 42104 | Eximcorp | SN2469 | Curved flat nose pliers with smooth jaws, forged steel, heat-treated, insulated grips* | 5.25" | 4.95 | 4.49 |
| 217891 | Xcelite | L4V | Subminiature needle nose pliers, cushioned grips, general purpose use | 4.0" | 19.95 | 17.95 |
| 152055 | Xcelite | S2K | Shearcutter pliers set with 5.6" needle nose plier and 5.2" electronic flush cutter, made of carbon steel | 5.6" / 5.2" | 19.95 | 17.95 |
| 73121 | BenchPro | PLIERS 5PC-R | 5-Piece precision stainless steel pliers set (micro cutting, micro round, long nose, flat nose, bent nose) | 4.0" | 19.95 | 17.95 |
| 2203637 | Eximcorp | SN2483 | Straight square nose pliers with smooth jaws, forged steel, insulated handle* | 6.0" | 5.95 | 5.25 |
| 217998 | Xcelite | LN54GV | Thin long nose pliers with cushioned grips, smooth jaws, general purpose use | 5.0" | 22.95 | 20.99 |
| 146721 | Xcelite | NN7776V | Long needle nose flat pliers with cushioned grips, smooth jaws, general purpose use | 6.0" | 26.95 | 23.95 |
| 2100161 | Eximcorp | EXIM10 | 10-piece pliers & cutters tool kit w/ the pliers marked above with an asterisk (*) and 5.3" diagonal cutters | 4.25-8" | 34.95 | 31.95 |

Hi-Speed Steel Step Drill Bit & Set

Drill multiple holes in thin material with the same bit, faster and easier. Each bit does the work of many drill bit sizes. You can drill holes in most materials such as plastic, metal and wood up to 1/8" thick.

- Heat-treated, high speed steel with titanium coating
- 2 flute design for faster, smoother and cleaner cuts
- 1/4" quick change hex shank
- Includes 3 pieces: 3/16" - 1/2" 6-step; 1/4" - 3/4" 9-step; 1/8" - 1/2" 13-step

| Part No. | Description | 1 | 10 |
|----------|-----------------------|---------|---------|
| 2169731 | 3-piece drill bit set | \$16.95 | \$14.95 |

JAMECO BenchPro

PC Board Drill Bits

- Use for drilling holes in glass PC boards

| Part No. | Size | Diameter | 1 | 10 | 100 |
|----------|------|----------|------|------|------|
| 1919537 | 1/8 | 0.125" | .75 | .65 | .49 |
| 1919588 | 31 | 0.120" | .75 | .65 | .49 |
| 1919300 | 32 | 0.116" | .75 | .65 | .49 |
| 1919609 | 33 | 0.113" | .75 | .65 | .49 |
| 1919553 | 35* | 0.090" | .75 | .65 | .49 |
| 1919570 | 38* | 0.102" | .75 | .65 | .49 |
| 16619 | 75* | 0.021" | 2.49 | 2.25 | 1.95 |

*Black anodize

JAMECO BenchPro

Mini-Drill and Stand

This Mini-Drill is excellent for drilling through circuit boards and protoboards. The drill comes with an array of drilling, grinding and sanding attachments. Drill stand is designed to function like a drill press.

| Part No. | Description | Wt. (lbs.) | 1 | 5 | 25 |
|----------|----------------|------------|---------|---------|---------|
| 26702 | GTT-103A drill | 0.8 | \$39.95 | \$35.95 | \$32.49 |
| 26711 | GTT-104 stand | 1.8 | 29.95 | 26.95 | 23.95 |

*Drills and Bits — Enter Web Code NEJ

Pro's Kit

34-Piece Security Bit Set

These bits match the security fasteners commonly used in today's electronic products.

Includes: Torx bits: #6, #8 and #10; Tri-wing bits: #1, #2, #3 and #4; Security hex bits: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32" 3/16" and 1/4"; Security Torx bits: T8, T10, T15, T20, T25, T27, T30, T35 and T40; Spanner bits: 4, 6, 8 and 10mm; Phillips bits: #1, #2, #3 and #4; and 60mm magnetic bit extension that fits 1/4" hex driver

| Part No. | Description | 1 | 10 |
|----------|---------------------------|---------|---------|
| 223829 | 32-piece security bit set | \$13.49 | \$12.49 |

JAMECO BenchPro

Mini-Drill Bit Kit

- Mini drill (26702)
- Mini drill stand (26711)
- Drill bit sizes 75 & 31 (P/Ns 16619/1919588)

| Part No. | Description | Price |
|----------|--------------------|---------|
| 2113252 | Mini-drill bit kit | \$62.95 |

JAMECO BenchPro

Deluxe Precision Knife Set

- Three different knife handles — fine work, medium and heavy duty power grip
- Size: 6.3"L x 2.8"W x 1.4"H

Includes: 13 types of blades

| Part No. | Description | 1 | 10 | 100 |
|----------|--------------------|--------|--------|--------|
| 72768 | 13 blade knife set | \$8.95 | \$7.95 | \$6.95 |

H

Nibbling Tool

- Perfect for cutting, trimming, or notching sheet metal up to 18 AWG
- Time-saver when working on prototyping, chassis, and circuit boards
- Minimum 0.375" hole required • Size: 7.8"L

| Part No. | Mfr. Part No. | Description | 1 | 10 |
|----------|---------------|-----------------|--------|--------|
| 18810 | HT204 | Nibbling tool | \$9.95 | \$8.95 |
| 29331 | HT204B | Replacement bit | 3.95 | 3.59 |

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Screwdrivers, Calipers & Miscellaneous Tools

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

JAMECO BenchPro Ball-End, Hex Key, Nut Driver, Screwdriver & Socket Sets

These small screwdriver and hex-key hand tool sets are great for working on small-scale jobs like electronics, computer repair, craft or models. The tools are stored in clam shell boxes or internally for convenience and organization. Get it right in the first time around with these reliable tools.

- Delivers perfect balance between tip strength and working angle
- Ergonomically designed anti-roll handle
- Bondhus: Made in USA, ball-end inserts quickly into screw head up to 25 degrees



*Web Code: CAQ

| Part No. | Mfr. | Description | 1 | 10 |
|----------|----------|---|--------|--------|
| 34041 | BenchPro | 6-pc. precision screwdriver set (slotted - 3/64", 1/16", 5/64", 5/32", 1/8", 9/64") | \$2.49 | \$2.25 |
| 34059 | BenchPro | 6-pc. precision screwdriver set (Phillips #0 - 1/16", 5/64", 3/32", #1 - 1/8", 9/64") | 2.49 | 2.25 |
| 168735 | Xcelite | XP600 6-pc ESD-safe screwdriver set, slotted & philps, vanadium steel w/ black oxide tips and case | 27.95 | 24.95 |
| 226106 | BenchPro | 6-pc. precision 50 mm torx screwdriver set (Torx - T5, T6, torx hex - T7, T8, T9, T10) | 11.95 | 10.95 |
| 2119005 | BenchPro | 7-pc. ratcheting screwdriver bit set (3-slotted, 3 philips, 1 square) | 1.95 | 1.75 |
| 226094 | BenchPro | 11-pc. magnetic AWL prec. screwdriver set (slotted - .9, 1.2, 1.4, 1.8, 2.4, 3 mm, Phillips - #00, #0, #1) | 3.95 | 2.95 |
| 2096173 | Bondhus | 12-pc. ball-end hex key set (.05"; 1/16"; 5/64"; 3/32"; 7/64"; 1/8"; 9/64"; 5/32"; 3/16"; 7/32"; 1/4", 5/16") | 12.95 | 11.49 |
| 2231339 | BenchPro | 4-pc. metric 1/4" 6 point socket set (5mm, 6mm, 8mm, 10mm) | 6.95 | 6.25 |



1/4-Watt & 1/2-Watt Resistor & Capacitor Lead Forming Tool

- Watt size indicates appropriate package size
- Bends lead length in 0.05" increments
- Lead spacing: 1/4W: 0.4"-1.5"; 1/2W: 0.5"-1.5"

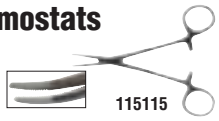
| Part No. | Description | Size (L" x W") | 1 | 10 |
|----------|-------------|----------------|--------|--------|
| 106884 | 1/4W & 1/2W | 5.4 x 1.5 | \$4.95 | \$4.49 |



JAMECO BenchPro 5" Steel Hemostats

- Grade 410 A.I.S.I. stainless steel
- Three locking positions

| Part No. | Cross Ref. No. | Description | 1 | 10 |
|----------|----------------|-------------|--------|--------|
| 115107 | HEM01 | 5" straight | \$3.59 | \$2.49 |
| 115115 | HEM02 | 5" curved | 3.59 | 2.49 |



JAMECO BenchPro 5-Piece Needle File Set

- Round, square, tri-square, half-round, flat
- Made of heavy duty hardened steel
- Color: black with red handle • Each 7" long

| Part No. | Description | 1 | 10 | 25 |
|----------|------------------|--------|--------|--------|
| 2157589 | 5-piece file set | \$5.49 | \$5.25 | \$4.49 |



JAMECO BenchPro 30 AWG Wire Wrap/Strip Tool

Recommended for use on 0.025" (0.63mm) square posts on 0.100" (2.54mm) center grids. The first 1-1/2 loop on the modified tool has wire insulation.

- Modified wrap for 30 gauge Kynar wire (pg 42)
- Knurled handle for easy grip • 5" long
- Wire stripper stored in handle

| Part No. | Description | 1 | 5 |
|----------|--------------------|---------|---------|
| 2150361 | Modified wrap tool | \$19.95 | \$17.95 |



JAMECO BenchPro IC Pin Straightener

Straighten bent pins safely and easily with Jameco's IC pin straightener.

- Straightens 8/14/16/18/20/24/28/40/42-pin ICs
- Material: durable plastic • Size: 3.3"L x 1.5"W x 0.4"H

Includes: Ground terminal

| Part No. | Description | 1 | 10 | 100 |
|----------|-----------------|--------|--------|--------|
| 99363 | IC straightener | \$7.95 | \$6.95 | \$5.95 |



JAMECO BenchPro T-Handle Reamer Tool

Excellent for aluminum chassis work

- For enlarging starter holes on panel mount components from 1/8" to 1/2" diameter
- T-handle for easy rotation of tool
- Handle: 3.3" long, tool: 5.3" long

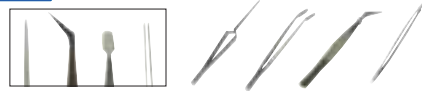
| Part No. | Description | 1 | 10 |
|----------|-----------------|--------|--------|
| 151750 | T-handle reamer | \$6.95 | \$5.95 |



JAMECO BenchPro 4-Piece Steel Tweezer Set

- 4 styles of stainless steel tweezers, one self-locking

| Part No. | Description | 1 | 10 | 100 |
|----------|---------------------|--------|--------|--------|
| 10735 | 4-piece tweezer set | \$5.95 | \$5.49 | \$4.95 |



JW Strip-Wrap-Unwrap Tools

- Tool tip made of tempered steel
- Spring steel cutter
- Use with 30 AWG wire on .025" square posts
- No solder necessary, see pg 42 for wire
- Wrap 1 to 2 turns of insulated portion of wire for secure connections • 4.5" long

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|------------------|---------|---------|
| 236785 | HSR30 (Regular) | \$27.95 | \$25.95 |
| 34585 | HSM30 (Modified) | 29.95 | 27.95 |

*Web Code: BBC



JAMECO BenchPro Digital Display Calipers

Metric and Inches

- Hardened stainless steel
- Display: inches to 0.001; mm to 0.01
- Instructions for making internal, external, depth & step measurements
- One-year warranty

Includes: Fitted case and 1.5V silver oxide battery (replacement battery, P/N 140783, pg 111)

| Part No. | Description | 1 | 5 |
|----------|---------------------|---------|---------|
| 127482 | Measures 6" (150mm) | \$27.95 | \$25.95 |
| 2153545 | Measures 8" (203mm) | 31.95 | 28.95 |



*Web Code: PAQ

JAMECO BenchPro Tweezers

- 252929: Straight round, fine-point tip, stainless steel
- 253092: Curved fine-point tip
- 252938: Self-closing reverse-action tweezers; medium point tip; stainless steel
- 253113: Fine-point tip, insulated, anti-static
- 252912: Straight fine-point tip, tapered

| Part No. | Length | Photo | 1 | 10 | 25 |
|----------|--------|-------|--------|--------|--------|
| 252929 | 4.75" | 1 | \$2.95 | \$2.49 | \$1.95 |
| 253092 | 4.6" | 2 | 2.95 | 2.49 | 1.95 |
| 252938 | 4.6" | 3 | 3.95 | 3.59 | 3.25 |
| 253113 | 4.75" | 4 | 2.95 | 2.49 | 1.95 |
| 252912 | 4.75" | 5 | 2.95 | 2.49 | 1.95 |



*Web Code: FAA

Xytronic Vacuum Tweezers

- Pick & place small parts of all kinds: glass slides, coins, optics, SMDs, film, etc.
- Easy interchangeable tips
- ESD safe body

| Part No. | Mfr. | Includes | 1 | 5 |
|----------|----------|-------------|---------|---------|
| 207239 | Xytronic | 4 tips/cups | \$17.95 | \$15.95 |
| 2183939 | Xytronic | 3 tips/cups | 24.95 | 22.95 |



30 AWG KYLAR™ WIRE-WRAP WIRE

- Polyvinylidene fluoride insulation
- Silver-plated solid copper conductor
- Temperature: -40°C to +125°C
- UL1423, VW-1
- See page 12 for wire-wrap sockets

| Length | Black P/N | Red P/N | White P/N | Blue P/N | Green P/N | Yellow P/N | 1 | 5 |
|--------|-----------|---------|-----------|----------|-----------|------------|---------|---------|
| 100' | 22577 | 22631 | 22665 | 22542 | 22606 | 22700 | \$11.95 | \$10.95 |
| 1000' | 22585 | 22649 | 22673 | 22551 | 22614 | 22702 | 59.95 | 54.95 |

*Web Code: NAC



Magnifying Lamps & Anti-Static Products

22"L Anti-Static Plastic DIP IC Storage Rails & Rubber Rail Stops



29524 (ICs not included) 29583
29516: .300" rail fits 8, 14, 16, 18, 20 and 22-pin ICs
29524: .600" rail fits 24, 28, 36 and 40-pin ICs
29583: Rubber stops used to plug plastic rail ends

Note: previously used

* Order in multiples of 10

| Part No. | Product No. | Description | 1 | 10 | 100 |
|----------|-------------|-------------|-------|-------|-------|
| 29516 | RIC20 | .300"W rail | \$.29 | \$.25 | \$.22 |
| 29524 | RIC220 | .600"W rail | .29 | .25 | .22 |
| 29583 | RRS | Rubber stop | *.09 | .07 | |

DIGITAL LUX METER

Measure local area brightness over your workstation with one touch.

- 1999 count display w/ low bat.
- Light pocket-sized model
- Measure intensity from 0.1 to 50,000 lux

| Part No. | Description | 1 | 5 |
|----------|-------------|---------|---------|
| 2175306 | DVM1300 | \$39.95 | \$37.95 |

ANTI-STATIC DESOLDERING PRODUCTS

In addition to having a static-free work surface, your tools can have the same protection.

| Part No. | Mfr. P/N | Description | Price |
|----------|----------|----------------------------|--------|
| 2203784 | 1822-5F | 0.075" x 5' desolder braid | \$3.49 |
| 2131215 | VTD3 | Desolder pump w/ 0.8" tip | 7.95 |

Anti-Static Heel Strap

- Discharges static without restricting your mobility
- Ground strap length: 24"L



| Part No. | Description | 1 | 10 | 25 |
|----------|-----------------------|--------|--------|--------|
| 2204437 | Strap w/ 1MΩ resistor | \$3.95 | \$3.59 | \$3.29 |

Anti-Static Work Mats

These mats are made of attractive semi-conductive vinyl that provide adequate discharging yet will not short leads or pins.

2130853

| Part No. | Dimensions | Wt. (lbs.) | 1 | 10 | 25 |
|----------|---------------|------------|--------|--------|--------|
| 10576 | 11.3" x 22" | 0.7 | \$9.95 | \$8.95 | \$7.95 |
| 10584 | 19.5" x 23.5" | 1.1 | 13.95 | 12.49 | 10.95 |
| 2130853 | 19.7" x 23.6" | 1.1 | 14.95 | 13.95 | 12.95 |
| 2152075 | 24" x 48" | 3.9 | 69.95 | 64.95 | 59.95 |

Field Service Static Kit

- 4 pocket for ESD safe storage
- 10' ground strap and 6' wrist strap share on one ground point
- Size: 2' x 2.13'



| Part No. | Cross Ref. No. | 1 | 5 | 25 |
|----------|----------------|---------|---------|---------|
| 2113720 | 8PK-AS07-1 | \$14.95 | \$13.95 | \$12.95 |

Visor Magnifier w/ Light

- Power supply: 4 AAA batteries (not included)
- Adjustable diopter: 1.8/2.3/3.7/4.8
- Size: 7.9"L x 2.4"W x 5.5"H



| Part No. | Mfr. Part No. | Wt. (oz.) | 1 | 10 |
|----------|---------------|-----------|--------|--------|
| 2131119 | VTMG6 | 5.3 | \$8.95 | \$7.95 |

Anti-Static Wrist Straps

- Comfortable, adjustable black Velcro wrist strap
- The coiled grounding cord has banana plug and alligator clips
- Extended cord: 9'L (2131266: 6'L)



| Part No. | Mfr. | Color | 1 | 10 | 100 |
|----------|----------|--------------|--------|--------|--------|
| 34552 | BenchPro | Black/yellow | \$6.49 | \$5.95 | \$5.49 |
| 2131266 | Velleman | Black/yellow | 4.49 | 3.95 | 3.49 |
| 2202087 | 3M | Disposable | 1.95 | 1.75 | 1.49 |

Conductive Anti-Static Bags and Foam

Don't get zapped!

13864

Protect your investment with these inexpensive bags and ensure a safe work area with our conductive anti-static foam.

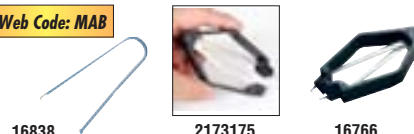
13864: 24"L x 12"W x 0.25"H

| Part No. | Description | 1 | 10 | 100 |
|----------|---------------------------------|-------|-------|-------|
| 249519 | 4" x 6" anti-static bags, pink | \$.25 | \$.19 | \$.12 |
| 249527 | 5" x 7" anti-static bags, pink | .25 | .19 | .12 |
| 2202247 | 5" x 7" anti-static zip, gray | .39 | .29 | .19 |
| 78650 | 8" x 10" anti-static bags, gray | .39 | .29 | .25 |
| 13864 | 24" x 12" anti-static foam | 12.95 | 11.95 | 10.95 |
| 2237896 | 12" x 16" anti-static foam | 3.95 | 3.49 | 2.95 |

*Anti-Static — Enter Web Code XAA

PLCC & DIP IC Extractors

*Web Code: MAB



| Part No. | Manufacturer | Description | 1 | 10 | 100 |
|----------|--------------|-------------|--------|--------|--------|
| 16838 | BenchPro | DIP | \$2.95 | \$2.59 | \$1.95 |
| 2173175 | BenchPro | PLCC | 2.95 | 2.59 | 2.29 |
| 16766 | Velleman | PLCC | 3.95 | 3.49 | 2.95 |



Magnifying Lamps



*Web Code: DAW

For anyone working with precision assembly, inspection or design, these magnifying lamps are essential for the workbench. Whether with incandescent or LED light, our selection will have you choose what best suits your needs to help reduce eye strain and vision fatigue. Easily view the smaller details.



| Part No. | Diopter | Lamp Size | Length | Shape | Type | # of Bulbs | Watts | Color | Wt. (lbs.) | 1 | 5 |
|----------|---------|--------------|--------|-------------|------|------------|-------|--------|------------|---------|---------|
| 2238012 | 3 | 3.5"Diameter | 14.5" | Circular | LED | 24 | 5.4 | Black | 1.9 | \$44.95 | \$39.95 |
| 2238047 | 3 | 3.5"Diameter | 14.5" | Circular | LED | 24 | 5.4 | Black | 2.6 | 44.95 | 39.95 |
| 149981 | 3 | 5"Diameter | 45" | Circular | INC | 1 | 22 | White | 7.3 | 59.95 | 54.95 |
| 2120330 | 3 | 7"Diameter | 30" | Circular | LED | 4 | 3.4 | White | 21 | 119.95 | 113.95 |
| 2238039 | 3 | 7"L x 5"W | 36" | Rectangular | LED | 36 | 7.6 | White | 9 | 129.95 | 119.95 |
| 2238004 | 3 & 5 | 5"Diameter | 32" | Circular | LED | 45 | 9.4 | White | 5.7 | 89.95 | 79.95 |
| 2238021 | 3 | 5"Diameter | 32" | Circular | LED | 45 | 9.4 | Silver | 7.0 | 99.95 | 89.95 |
| 2196924 | 5 | 5"Diameter | 36" | Circular | LED | 90 | 5.5 | White | 6.8 | 99.95 | 89.95 |
| 2210600 | 5 | 5"Diameter | 39" | Circular | LED | 45 | 9.4 | White | 5.4 | 94.95 | 84.95 |
| 197456 | 5 | 5"Diameter | 40" | Circular | INC | 1 | 22 | White | 7.1 | 84.95 | 74.95 |
| 2210597 | 5* | 7"Diameter | 36" | Circular | LED | 102 | 16.8 | White | 10.8 | 239.95 | 224.95 |

*Also contains 5 UV LEDs †INC = Incandescent

TOP SELLING COMPONENT KITS

- Kits include plastic cabinet with 20 drawers
- Cabinet size: 6.0"L x 15.0"W x 7.9"H
- Includes ID labels for each drawer (except refills)

7400 Series IC Kit

Includes 350 pcs. (30 Types) 7400 (TTL) Integrated Circuits

| 20 each | 10 each | 10 each | 10 each | 10 each | 10 each |
|---------|---------|---------|---------|---------|---------|
| 7400 | 7402 | 7416 | 7432 | 74121 | 74157 |
| 7404 | 7405 | 7417 | 7438 | 74123 | 74160 |
| 7406 | 7408 | 7420 | 7447 | 74132 | 74174 |
| 7407 | 7410 | 7427 | 7485 | 74151 | 74175 |
| 7474 | 7414 | 7430 | 74107 | 74153 | 74279 |

| Part No. | Description | 1 | 5 |
|----------|-----------------------------|----------|----------|
| 84953 | 350 pcs. 7400 series IC kit | \$219.95 | \$199.95 |

74LS00 Series IC Kit

Includes 420 pcs. (35 Types) 74LS00 (TTL) Integrated Circuits

| 20 each | 10 each | 10 each | 10 each | 10 each |
|---------|---------|---------|---------|---------|
| 74LS00 | 74LS05 | 74LS73 | 74LS125 | 74LS193 |
| 74LS02 | 74LS10 | 74LS75 | 74LS139 | 74LS240 |
| 74LS04 | 74LS11 | 74LS85 | 74LS151 | 74LS244 |
| 74LS08 | 74LS14 | 74LS86 | 74LS155 | 74LS245 |
| 74LS32 | 74LS20 | 74LS90 | 74LS157 | 74LS273 |
| 74LS74 | 74LS30 | 74LS93 | 74LS174 | 74LS373 |
| 74LS138 | 74LS47 | 74LS123 | 74LS175 | 74LS374 |

| Part No. | Description | 1 | 5 |
|----------|-----------------------------|----------|----------|
| 84961 | 420 pcs. 74LS series IC kit | \$169.95 | \$153.95 |
| 130391 | Refill for 84961 (420 pcs.) | 154.95 | 139.95 |

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Heat Guns & Soldering Equipment

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



Glue Gun and Glue Sticks

- Adheres to PCBs, cardboard, wires, metal and cloth
- Silicon nozzle
- Electronic heating
- Trigger action
- Utilizes 100mm long glue sticks (2 sticks included)
- Size: 7.3"L x 6.3"W



| Part No. | Description | 1 | 5 | 25 |
|----------|--------------------------|--------|--------|--------|
| 72696 | Glue gun | \$7.49 | \$6.95 | \$6.49 |
| 78633 | Glue sticks (6/pk) | 2.75 | 2.25 | 1.95 |



16 to 30-Watt Variable Soldering Iron & Stand

- 116572: Length: 7.5"
- 36329: • Black anodized steelbase - 5.3"L x 3.3"W
- See below for replacement sponge (P/N 134631)
- Fits most soldering irons .85" dia.



| Part No. | Description | 1 | 5 | 25 |
|----------|------------------------------|---------|---------|---------|
| 116572 | 258VL soldering iron ... | \$19.95 | \$17.95 | \$15.95 |
| 36329 | Soldering stand | 5.95 | 5.39 | 4.79 |
| 134631 | Sponge (for P/N 36329) | 2.95 | 2.59 | 2.29 |

Weller® 18-Watt Pro Series Soldering Iron

- Heats up to working temperature in just 35 seconds
- Up to 900°F temperature
- Co-molded grip for a comfortable feel
- Performance equivalent to a 60 watt iron
- Designed be self-standing, no stand is needed
- Tips use a phono jack and plug for easy tip exchange • UL and CUL listed
- Ideal for hobbies, kits, radios and electronics



| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|--------------------------|---------|---------|
| 2153810 | WPS18MP | 18-watt iron | \$31.95 | \$29.95 |
| 2158637 | WPS11 | 0.03125" chisel tip ... | 9.95 | 8.95 |
| 2158629 | WPS10 | 0.03125" conical tip ... | 9.95 | 8.95 |

Weller® 20-Watt Soldering Iron

A high-quality, mains-powered soldering iron for general purposes.

- Power supply: 20W/110VAC
- UL approved
- Cord length: 5 feet

Includes: Iron stand



| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|--------|--------|
| 2131151 | VTS20U | \$7.95 | \$7.49 |



25-Watt Thermally Balanced Soldering Iron

The XY200GX is a thermally balanced soldering iron for the professional or hobbyist.

- 120VAC; 6' cord • UL listed
- 25-watt power consumption
- Interchangeable tips (pg 127)
- Length: 8.0"
- One-year warranty



| Part No. | Mfr. Part No. | 1 | 5 | 25 |
|----------|---------------|---------|---------|---------|
| 129040 | 200GX-25W | \$13.95 | \$12.49 | \$11.49 |



Heat Guns and Strippers

All Master® products are made in the US from superior quality materials and the finest craftsmanship. Heat guns are ideally suited for drying, heating, welding, shrinking, soldering, desoldering and many other applications where heat is required.

191943: • 3-pos. switch (hot/off/cool)



* Web Code: QAJ



| Part No. | Mfr. | Product No. | Description | Watts | Heat Setting (°F) | Temp. (°F max.) | 1 | 5 |
|----------|----------|-------------|------------------------------|-------|-------------------|-----------------|---------|---------|
| 2117413 | NTE | HG300-D | Mini heat gun | 350 | 482-662 | 662 | \$24.95 | \$22.49 |
| 254925 | BenchPro | 1001A | Economical heat gun | 1200 | 600 & 1000 | 1000 | 42.95 | 39.95 |
| 76865 | BenchPro | G1HG1 | Heat gun/stripper | 1500 | 600 & 1100 | 1100 | 46.95 | 44.95 |
| 191943 | Weller | 6996C | Industrial heat gun | 250 | 750-800 | 800 | 139.95 | 134.95 |
| 2007062 | BenchPro | 1004 | Accessory kit for P/N 254925 | — | — | — | 9.95 | 8.95 |

Weller® 25 & 35-Watt High-Quality Soldering Irons

- 120VAC @ 60Hz
- Interchangeable heater elements
- Lightweight handle with cushioned grip
- Quick change knurled collar • Length: 9"

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|-----------------------|---------|---------|
| 170587 | WP25 | 25W solder iron .. | \$44.95 | \$41.95 |
| 192102 | WP35 | 35W solder iron | 54.95 | 52.49 |
| 146608 | ST1 | Screwdriver tip 1/16" | 4.95 | 4.49 |
| 146616 | ST3 | Screwdriver tip 1/8" | 5.95 | 5.49 |
| 192145 | ST6 | Screwdriver tip .031" | 5.95 | 5.39 |
| 146624 | ST7 | Conical tip 1/32" | 5.95 | 5.39 |

35-Watt Soldering Iron

A high quality, mains powered soldering iron for general purposes.

- 110-120VAC
- 35-watt
- Long life tip
- Cord length: 5'
- 5' solder tube
- UL/CUL approved



| Part No. | Mfr. Part No. | 1 | 5 | 25 |
|----------|---------------|--------|--------|--------|
| 2228367 | CL-1 | \$9.95 | \$8.95 | \$7.95 |

* Soldering Stands — Enter Web Code YAU

Weller® LED Soldering Irons

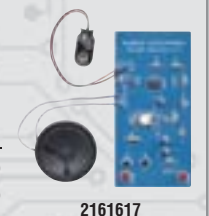
- 3 high-temperature LEDs with 25 lumen light intensity
- Each iron includes soldering aid tool, tip and user's manual
- 2174901/2174928 includes soldering aid tool, lead-free solder and 2 spare soldering tips

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|------------------------------|---------|---------|
| 2174901 | SP25NKUS | 25W soldering iron kit | \$20.95 | \$18.95 |
| 2174936 | SP40NUS | 40W soldering iron | 19.95 | 18.95 |
| 2174928 | SP40NKUS | 40W soldering iron kit | 23.95 | 21.95 |
| 2174944 | SP80NUS | 80W soldering iron | 26.95 | 24.95 |

LEARN TO SOLDER KITS

Learning to solder might seem like a daunting process, but with the detailed manual you'll get a background on the tools and suggested best practices for setting up soldering equipment as well as some "do's and don'ts" while soldering. You'll be surprised how easy it can be.

| Part No. | Mfr. Part No. | Description | Price |
|----------|---------------|---|---------|
| 2161617 | SP-1A | Make a siren kit, age 12+ (kit only) | \$10.95 |
| 2124218 | AK-100 | Make a siren, age 12+, (kit with 25W iron and cutter) | 18.95 |
| 2175541 | EDU03U | 2 mini LED kits with iron, solder and cutter | 39.95 |



40 & 60W High-Performance, Economical Soldering Irons

- Iron length: 9"
- 120VAC; 6' cord with 3-prong plug
- High-performance double-wound nichrome heating element
- Flexible, burn-resistant silicon cable

| Part No. | Description | 1 | 5 | 25 |
|----------|--------------------------------|---------|---------|--------|
| 224602 | 40W soldering iron | \$11.95 | \$10.95 | \$9.95 |
| 195223 | 60W soldering iron | 12.95 | 11.49 | 10.49 |
| 226018 | Conical tip for P/N 224602 ... | 2.95 | 2.75 | 2.49 |



60-Watt Replacement Soldering Iron

- Compatible with the following XYtronic soldering stations: 168-3C, 168-3CD, 9-60A and 9-60D.

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 2144649 | XY-207ESD | \$39.95 | \$35.95 |



Stand for Solder Irons

Safely rest hot irons on the stand to prevent burning your work surface.

- Perfect for pencil irons
- 1.93" diameter x 1.2" tall (max.)

| Part No. | Mfr. Part No. | 1 | 10 | 100 |
|----------|---------------|--------|--------|--------|
| 2237992 | 27A1040406 | \$.99 | \$.89 | \$.79 |

* Soldering Irons — Enter Web Code QAS

- Cord strain relief for extended life
- Durable cable with 5-foot reach



6-Watt Portable USB Soldering Iron

- Professional grade soldering tip
- Achieves max. temp. of 896°F/480°C via 9V battery or USB connection
- Rating: 5V @ 800mA
- Built-in ultra bright LED light
- Heats up in just 20 seconds
- Perfect for soldering SMD components
- Energy-efficient, only consumes approx. 5W

Includes: 9V battery adapter, USB cable Y-adapter and sponge

| Part No. | Mfr. Part No. | Size | 1 | 5 |
|----------|---------------|---------------|---------|---------|
| 2173618 | MSD-086 | 5.8"L x 0.6"W | \$19.95 | \$17.95 |

Weller® 100-Watt Soldering Iron

- "Closed loop" method of controlling max. tip temperature
- Nominal heat-up time with 700°F tip is 110 seconds
- Length: 6"
- 120VAC @ 60Hz input • Weight: 0.7 lbs.

Includes: CT6F7 (0.375" screwdriver tip; 700°F)

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|-----------------------|---------|---------|
| 192081 | W100PG | Solder iron | \$64.95 | \$61.95 |
| 192090 | CT6F7 | .375" screwdriver tip | 7.95 | 7.49 |

Weller® Soldering Tip Care

- Tip thinner and activator • 1.5 oz.

| Part No. | Mfr. Part No. | Price |
|----------|---------------|---------|
| 2188043 | 51303199 | \$11.95 |

***Prototyping Boards — Enter Web Code PBH**

5 LB. SOLDER ROLL 0.125" DIAMETER

| Part No. | Mfr. Part No. | Composition | Price |
|----------|---------------|---------------|---------|
| 2188959 | ALPHA-125 | 60%Sn, 40% Pb | \$29.95 |

0.075" DESOLDERING BRAID

Zip Wick™ desoldering braid is fast, consistent and efficient and leaves minimal residue. Copper weave maximizes thermal conductivity. Pure type "R" rosin.

| Part No. | Mfr. Part No. | Length | Price |
|----------|---------------|--------|--------|
| 2205229 | ZW075-25 | 25 ft. | \$6.95 |

MAKER PASTE SOLDER PASTE

Pre-mixed, high quality, low cost, no clean, lead free solder paste. Tin and copper mix.

- Water washable, clear residue
- 2 year unrefrigerated shelf life
- Liquid at 227°C (441°F) • Weight: 9 gram

| Part No. | Mfr. Part No. | Composition | Price |
|----------|---------------|-----------------|--------|
| 2240260 | ICB97100 | 99.3%Sn, 0.7%Cu | \$9.95 |

Weller® 40-Watt Soldering Station

- Lighted on/off switch
- Adjustable power from 5 watts to 40 watts
- 120V @ 60Hz
- Temperature is electronically controlled from 350°F to 850°F
- Illuminated on/off switch • Light weight pencil iron
- Size: 5.5"L x 4.5"W x 3.5"H • Weight: 1.9 lbs.

Includes: ST3 1/8" screwdriver tip and manual

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 146595 | WLC100 | \$52.95 | \$49.95 |

Weller® Soldering Tips

ST Series: Replacement tips for WLC100, WP25, WP30, WP35 soldering irons and stations. Precision ground copper tips plated with iron, nickel and chromium

***Web Code: NAB**

ET Series: Replacement tips for PES51 soldering pencil (P/N 2082847). Contains a sensor hole in base of tip fitted with a stainless steel liner

MT Series: Replacement tips for SP23 and SP23D soldering irons. Solid copper tips, nickel-plated and tinned

| Part No. | Mfr. P/N | Description | 1 | 5 |
|----------|----------|------------------------------|--------|--------|
| 146616 | ST6 | Screwdriver tip 1/32" | \$5.95 | \$5.39 |
| 146608 | ST1 | Screwdriver tip 1/16" | 4.95 | 4.49 |
| 2137975 | ST2 | Screwdriver tip 1/10" | 5.95 | 5.39 |
| 146616 | ST3 | Screwdriver tip 1/8" | 5.95 | 5.49 |
| 146624 | ST7 | Conical tip 1/32" | 5.95 | 5.39 |
| 2137983 | ST5 | Single flat tip 1/32" | 5.95 | 5.49 |
| 16774 | ETA | Screwdriver tip 1/16" | 5.95 | 5.49 |
| 2138020 | ETH | Screwdriver tip 1/32" | 4.95 | 4.69 |
| 16782 | ETJ | Long screwdriver tip 1/32" | 5.95 | 5.49 |
| 16803 | ETR | Narrow screwdriver tip 1/16" | 5.95 | 5.49 |
| 2137991 | ETP | Conical tip 1/32" | 5.95 | 5.49 |
| 16811 | ETS | Long conical tip 1/64" | 6.95 | 6.25 |
| 2138011 | ETO | Long conical tip 1/32" | 6.95 | 6.25 |
| 2138003 | MT1 | Cone-shape tip 1/8" | 6.95 | 6.25 |

Weller® 50W Soldering Stations

- Manual temperature setting
- Electronic temperature control
- Power-on LED indication
- Input voltage: 115VAC
- Input power: 50VA max.
- Temp. range: 374°F to 896°F (2130626); 302°F to 842°F (2196801)
- Size: 7.3" x 4.0" x 3.5" • Weight: 1.6 lbs.

Includes: AC cord, iron stand and sponge

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|-------------|---------|---------|
| 2196801 | VTSS4NU | 48W station | \$24.95 | \$22.49 |
| 2130626 | VTSS5U | 50W station | 21.95 | 20.95 |
| 2174864 | BIT55 | Conical tip | 2.49 | 2.25 |

***Soldering Irons — Enter Web Code QAS**

***Soldering/Desoldering Stations — Enter Web Code GEJ**

***Soldering Tips & Sponges — Enter Web Code NAB**

Weller® 50-Watt Analog & Digital Display Soldering Stations

Innovative heater and sensor combination for quick heat-up and rapid temperature recovery.

- Tip temperature offset capability allows user to reset temperature readings to match tip size and style
- Wireless temp. lockout
- Auto power-down after 90 minutes of inactivity • Temp. accuracy: ±9°F
- Temperature range: 350°F to 850°F • ESD safe
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Includes: PES51 50W soldering iron with ETA tip, PH50 stand and sponge, and adjustment tool

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|--------------------|----------|----------|
| 217461 | WES51 | Analog | \$129.95 | \$123.95 |
| 233533 | WESD51 | Digital | 189.95 | 179.95 |
| 2082847 | PES51 | Soldering iron | 47.95 | 45.95 |
| 2082783 | WCC104 | Replacement sponge | 3.95 | 3.59 |

Weller® 60-Watt ESD-Safe Soldering Station

- Temperature controllable: 600°F, 700°F or 800°F
- Closed-loop method of controlling maximum tip temperature to protect sensitive components
- Ferromagnetic temperature sensor, no adjustments necessary
- Quick disconnect plug for soldering iron and lighted on/off switch
- Impact-resistant plastic power unit
- Input: 120VAC @ 60Hz
- Size: 5.9"L x 4.5"W x 3.6"H • Weight: 4.0 lbs.

Includes: Power unit, soldering pencil with PTA7 tip (below), stand and sponge

| Part No. | Mfr. P/N | Description | 1 | 5 |
|----------|----------|-----------------------|----------|----------|
| 170552 | WTCPT | Solder station | \$179.95 | \$169.95 |
| 192161 | TC201T | Replacement iron | 99.95 | 94.95 |
| 192188 | PTA7 | Screwdriver tip 700°F | 5.95 | 5.39 |
| 192196 | PTA8 | Screwdriver tip 800°F | 4.49 | 4.25 |

60 & 80W Lead-Free Digital Soldering Stations

Grounded Soldering Tip

- 150°C to 480°C (302°F to 896°F)
- Fully grounded
- Insulated ceramic heating element for rapid heat-up and heat recovery
- Heater insulation exceeds 100MSΩ
- Zero voltage circuitry eliminating high voltage spike and magnetic field generation
- Size: 4.1"L x 3.5"W x 3.5"H • Weight: 2.5 lbs.

Includes: Manual, soldering iron w/ 1/32" tip, stand, tip cleaner and sponge

156814: Sharp conical chisel tip

156822: Conical chisel tip

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|-------------|---------|---------|
| 2174733 | LF-389D | 60W station | \$59.95 | \$53.95 |
| 2193782 | LF-399D | 80W station | 64.95 | 58.95 |
| 156814 | XYB01 | 1/32" tip | 4.95 | 4.49 |
| 156822 | XYB04 | 1/16" tip | 4.95 | 4.49 |
| 134631 | SP715 | Sponge | 2.95 | 2.59 |

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

70-Watt Digital ESD-Safe Soldering Station

- Adjustable temp. control
- Temp. range: 122°F to 896°F (50°C to 480°C)
- Ceramic heating element and sensor ensures rapid heat-up temperature and fast thermal recovery
- Password protected temperature setting

Includes: iron stand, brass wool cleaner, sponge, AC cord, conical tip

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|----------|----------|
| 2174611 | FX888D-29BY/P | \$139.95 | \$125.95 |

Weller 80-Watt Soldering Station

- 120V @ 60Hz
- Lighted on/off switch
- Adjustable power from 5 to 80 watts
- Temperature: 350°F to 900°F
- Size: 5.5"L x 4.5"W x 3.5"H
- Weight: 2.1 lbs.

Includes: MTG20 3/8" chisel tip, iron stand, sponge, AC cord and manual

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|----------------------|---------|---------|
| 2082775 | WLC200 | Soldering station .. | \$69.95 | \$64.95 |
| 2082821 | MTG22 | 3/8" cone tip | 11.95 | 11.25 |
| 2082783 | WCC104 | Sponge | 3.95 | 3.59 |

16 PCS. TOOL KIT FOR APPLE PRODUCTS

Professional, portable and complete tool kit for use on iPhones, iPads and iPods.

- 12 bits made of Cr-Mo-V steel
- Plastic pry/opening levers
- Mini suction cup for screens

| Part No. | Mfr. Part No. | Price |
|----------|---------------|---------|
| 2196887 | SD-9314 | \$17.95 |

120-Watt ESD Safe, Digital Lead-Free Soldering Station

- Input: 220-240VAC @ 50Hz, 100-120VAC @ 60Hz
- 0-volt. switching circuitry
- Precise temp. regulation
- Heater/sensor failure detection
- PTC sensor for quick heat-up time
- Temp. range: 200°C to 500°C (392°F to 932°F)
- Temp lock out feature, password protected
- High-quality sensor and heat transfer technology
- Aluminum housing • Size: 4.4"W x 6.2"H x 5.4"D

Includes: Separate iron holder with brass tip cleaner, soldering tip and AC cord

| Part No. | Mfr. Part No. | Wattage | 1 | 5 |
|----------|---------------|---------|----------|----------|
| 2181503 | LF-3200 | 120W | \$139.95 | \$132.95 |

Replacement Sponges for Legacy Model Soldering Stations

134640: For 138-3

134631: For XY-60D, XY-379 & XYT379-C

| Part No. | Mfr. Part No. | Size (in.) | 1 | 5 | 25 |
|----------|---------------|------------|--------|--------|--------|
| 134640 | SP815 | 1.8 x 1.8 | \$2.95 | \$2.59 | \$2.29 |
| 134631 | SP715 | 1.7 x 2.1 | 2.95 | 2.59 | 2.29 |
| 236460 | SP715 | 1.7 x 2.1 | 2.95 | 2.59 | 2.29 |

***SMD Rework Stations — Enter Web Code NAT**

***Soldering/Desoldering Stations — Enter Web Code GEJ**

SAFETY GLASSES

Disposable protective glasses that are lightweight and comfortable. Designed to give maximum peripheral vision without distortion. Features brow and solid side shields for splash protection.

- Can wear over regular glasses
- Solid side shields
- Color: dark grey

| Part No. | Mfr. Part No. | Size (W x H x D) | Price |
|----------|---------------|--------------------|--------|
| 2133691 | 3303-0331 | 6.1" x 2.5" x 5.5" | \$1.95 |

100-Watt Soldering & Desoldering Station with Fume Extractor

- Input voltage: 110-120VAC @ 60Hz
- Soldering iron: 32VAC/100W 150°C to 480°C (302°F to 896°F) • Size: 4.2"W x 3.6"D x 5.0"H
- Desoldering iron: 32VAC/100W 300°C to 450°C (572°F to 842°F) • Weight: 28 lbs.
- Heater and sensor failed detection and temp. lockout features • Digital temp. readout

Includes: 307A soldering iron, DIA100 desoldering iron, soldering stands, fume extractor, AX205 micro cutting pliers, 5-piece high precision tweezers, filter and cleaning accessories, AC power cord and manual

| Part No. | Description | 1 | 5 |
|----------|--------------------------|----------|----------|
| 2099198 | LF-8800 station | \$399.95 | \$379.95 |
| 2095509 | Desolder tip 1.2mm | 7.95 | 6.95 |
| 2095517 | Desolder tip 1.5mm | 8.95 | 7.95 |

700-Watt Lead-Free Multi-Function Surface Mount Rework Station

- 3-in-1 design: soldering, desoldering, hot air • Weight: 24.5 lbs.
- Heater/sensor failure detection
- Auto cooling design
- Temp. range: 212°F to 896°F

Includes: AC cord, 5-piece tweezers, replacement heating element, cleaning element, 4-piece nozzle set, iron/hot air gun holders and IC popper

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|----------|----------|
| 2144577 | LF-855D | \$299.95 | \$279.95 |

CHIPQUIK SMD Removal Kit

- Potential damage to printed circuit boards is eliminated
- 2.5' of CHIPQUIK® material removes 1250-1500 SMD pins

Includes: 2.5 ft. removal alloy material, 1cc syringe rework paste flux, alcohol pads for cleaning & complete instructions

| Part No. | Description | 1 | 5 |
|----------|-----------------------|---------|---------|
| 141305 | SMD removal kit | \$15.95 | \$14.95 |

Schwab's Electronic Component School Selection

Jameco's nine (9) most popular Grab Bags (highlighted on this page) are all individually bagged. North Dakota Engineer Loren Schwab recommended this selection of products as standard items. He also recommended a 20-drawer component cabinet with labels (319600, see photo above) for storage.

Includes: Ceramic and electrolytic capacitors, diodes, transistors, potentiometers, LEDs, 1/4W resistors, switches, spacers and standoffs.

| Part No. | Product No. | Description | Wt. (lbs.) | 1 | 10 |
|----------|-------------|-----------------------------|------------|---------|---------|
| 163213 | GB197 | Schwab's School Selection | 2.2 | \$69.95 | \$63.95 |
| 319600 | 6897CAB | 20 drawer component cabinet | 3.5 | 19.95 | 17.95 |

BEST SELLING TEST LEADS

JAMECO BenchPro

Pomona

*Web Code: RAC

135299 10444

| Part No. | Mfr. | Mfr. Part No. | Description | Price |
|----------|----------|---------------|---|--------|
| 2237677 | BenchPro | GAL03 | 3 alligator test leads, 21", 24 AWG | \$2.95 |
| 10444 | BenchPro | GAL01 | 10 alligator test leads, 21", 24 AWG, 5 color | 5.95 |
| 135299 | BenchPro | SF-207A | 5 pack minigrabbers, 14", 26 AWG | 11.25 |
| 159899 | Pomona | 3782-36-02 | 2 minigrabber to banana, 36", 20 AWG | 13.95 |

PROTOTYPING PRODUCTS

Use breadboards for practice circuit building, proto-boards for a more permanent circuit design and use enclosures to organize, secure or display your project.

Breadboards

| Part No. | Description | Price |
|----------|---|--------|
| 20601 | 400 point, 1 terminal strip, 3.25" x 2.13" | \$4.49 |
| 20723 | 830 point, 1 terminal strip, 6.5" x 2.13" | 9.95 |
| 20812 | 3220 point, 4 terminal strips, 7.25" x 7.5" | 35.95 |

Prototyping Boards

| Part No. | Description | Price |
|----------|--|--------|
| 105100 | 288 holes (0.035" dia.), 1.6" x 2.7", pad per hole | \$6.95 |
| 105129 | 669 holes (0.038" dia.), 2.0" x 4.4", pad per hole | 6.95 |
| 263207 | 640 holes (0.031" dia.), 2.4" x 4.1", pad per hole | 9.95 |

Enclosures

| Part No. | Description | Price |
|----------|--|--------|
| 18914 | ABS plastic box with lid, 4.9" x 2.5" x 1.5" | \$3.95 |
| 18893 | ABS plastic box with lid, 6.0" x 3.5" x 1.9" | 4.95 |
| 18877 | Plastic instrument case, 10" x 7.5" x 3.1" | 9.95 |

Soldering Equipment, Solder Kits & Tips

80-Watt SMD Rework Stations



2120541

- Thermocouple sensor for stable temp.
- Rapid heat-up and recovery

2120541: • Size: 7.4"L x 5.0"W x 3.3"H • Wt.: 2.6 lbs.

• Adjustable temperature: 482°F-842°F (250°C-450°C)

2099219: • Size: 8.8"L x 6.0"W x 4.5"H • Wt.: 6.8 lbs.

• Adjustable temperature: 392°F-896°F (200°C-480°C)

Includes: Base power unit, sponge, stand, surface mount tweezer iron and stand for tweezers

Part No. Description 1 5

2120541 SMD rework tweezer station **\$64.95 \$59.95**

2099219 Soldering & tweezer combo station ... **\$139.95 \$129.95**

156814 SMD conical tip (1/32") **4.95 4.49**

30-Watt Solder Tool Kit

Includes: Soldering iron with stand, long nose pliers, wire strippers, side cutters & sponge

Part No. Description 1 5

358598 7-piece tool soldering kit **\$15.95 \$14.95**

6-Piece Solder Aid Tool Kit

Includes: Various tips: chip holder, spacer, reamer, lever, needle, knife, fork shaft, hook and brush

Part No. Cross Ref. No. 1 5

2096000 GSR-107 **\$6.95 \$6.25**

600 & 1000-Watt Lead-Free Hot Air SMD Rework Stations

- Incorporates the largest pump in the industry
- Long life ceramic heater insures accurate and sufficient heat where you need it
- Automatic cooling mode protects the heating element
- Adjustable air-flow: 2128032: 1.5-40L/min; 2174741: 1.5-7.1L/min.
- Nichrome heating element
- Power supply: 100-120VAC @ 60Hz or 220-240VAC @ 50Hz
- Electronically controlled temperature system with digital readout in preset and actual temperature
- Hot air temp. range: 100°C - 480°C (212°F - 896°F)
- Temp lock-out feature, password protected
- Sensor/pump failure detection
- Static-free circuit design
- 25W diaphragm pump
- Size: 7.3"W x 5.3"H x 9.6"D • Weight: 10.8 lbs.

2128032 includes: Extra 600W heater, 4 focus hood tips, 5 stainless steel anti-magnetic tweezers, IC popper for IC extraction

2174741 includes: 2 focus hood tips, 5 stainless steel anti-magnetic tweezers, IC extractor

Part No. Mfr. P/N Description 1 5

2128032 LF-852D 600W station **\$209.95 \$194.95**

2174741 LF-852D-II 1000W station **\$239.95 \$224.95**

***SMD Rework Stations — Enter Web Code NAT**

900-Watt Lead-Free, ESD-Safe Soldering Rework Station

- 3-in-1 design: soldering, desoldering and hot air station
- 2 LED displays
- Temperature and air pressure settings
- Temperature-lock feature
- Heater and sensor failure detection
- Input voltage: 100-120/220-240VAC @ 60Hz/50Hz
- Soldering iron temperature range: 302°F - 896°F
- Desoldering iron temperature range: 572°F - 842°F
- Hot air temperature range: 212°F - 896°F
- Fume extractor air volume: 95/115 CFM

Includes: Soldering iron, desoldering iron, hot-air iron, fume extractor, extra heating element, 2 soldering iron stands, 4 hood tips and 5 tweezers

Part No. Mfr. Part No. Wt. (lbs.) 1 5

2128041 LF-853D 26.5 **\$569.95 \$529.95**

Heat Sink Clip

Heat sink absorbs and dissipates heat during soldering & desoldering of sensitive parts

Part No. Description 1 10 25

100378 Clip-on heat sink **\$1.49 \$1.25 \$0.99**

Solder Super Combo

Includes: 6 oz. pump bottle, 6pc scraper set, 6" acid brush, heat sink clip, 35W solder iron, solder and solder wick.

Part No. Mfr. Part No. 1 5 25

2244033 JESC-2000 **\$34.95 \$33.25 \$31.49**

Tips & Replacement Parts for XYtronic Soldering and Desoldering Products

***Web Code: NAB**

| Part No. | Mfr. P/N | Description | For XYtronic Model Numbers (*Legacy Models) | | | | | | | | | | Pricing | | |
|----------|-----------|--|---|---------------------------|-----------------------------------|-------|-----|---------|--------------|-----------------------------|-------------------------------|-----------------|---------|---------|---------|
| | | | 168 2359L JS5238* | 138530 319-C-3690 LF-1600 | 168 2000X XY900A 453D DESD 100-3C | 960D* | 968 | 9995DA* | LF-8000 169D | 1000 LF-9000 LF-7000 200PHG | L307A LF-9000 LF-5800 LF-5200 | LF-8550 LF-3000 | 1 | 10 | 25 |
| 35318 | XY48 | Assembly - 60W w/ nichrome heater | | | | | | | | | | | \$26.95 | \$24.95 | \$22.95 |
| 35326 | XY401 | Soldering tip - conical bevel 1/32" | ✓ | | | ✓ | ✓ | | | ✓ | | | 4.49 | 3.95 | 3.59 |
| 35078 | XY402 | Soldering tip - semi-chisel 1/32" | ✓ | | | ✓ | ✓ | | | ✓ | | | 4.49 | 3.95 | 3.59 |
| 35334 | XY403 | Soldering tip - conical sharp 1/64" | ✓ | | | ✓ | ✓ | | | ✓ | | | 4.49 | 3.95 | 3.59 |
| 35115 | XY404 | Soldering tip - conical chisel 1/16" | ✓ | | | ✓ | ✓ | | | ✓ | | | 4.49 | 3.95 | 3.59 |
| 35238 | XY405 | Soldering tip - semi-chisel wide 1/8" | ✓ | | | ✓ | ✓ | | | ✓ | | | 4.49 | 3.95 | 3.59 |
| 207335 | XY406 | Soldering tip - long conical chisel 3/64" | ✓ | | | ✓ | ✓ | | | ✓ | | | 3.49 | 2.95 | 2.69 |
| 207351 | XY410 | Soldering tip - chisel 3/16" | ✓ | | | ✓ | ✓ | | | ✓ | | | 3.95 | 3.59 | 3.29 |
| 156814 | XYB01 | Soldering tip - sharp conical chisel 1/32" | | ✓ | | | | | | | | | 4.95 | 4.49 | 3.95 |
| 207327 | XYB03 | Soldering tip - conical sharp 1/64" | | ✓ | | | | | | | | | 4.95 | 4.49 | 3.95 |
| 156822 | XYB04 | Soldering tip - conical sharp 1/16" | | ✓ | | | | | | | | | 4.95 | 4.49 | 3.95 |
| 207298 | XYB05 | Soldering tip - semi-wide chisel 1/8" | | ✓ | | | | | | | | | 4.49 | 3.59 | 3.25 |
| 127642 | XYD12 | Desoldering tip - 1.2mm (.0472") | | | | | ✓ | ✓ | ✓ | | ✓ | | 7.95 | 6.25 | 5.59 |
| 2095509 | XY12 | Desoldering tip - 1.2mm (.0472") | | | | | | ✓ | ✓ | | | | 7.95 | 6.95 | 5.95 |
| 2095517 | XY15 | Desoldering tip - 1.5mm (.0586") | | | | | | ✓ | ✓ | | | | 8.95 | 7.95 | 6.95 |
| 2135136 | 44-710654 | Soldering tip - conical 0.2mm (.007") | | | | | | | | | ✓ | | 3.95 | 3.59 | 3.29 |
| 2135144 | 44-710657 | Soldering tip - 45° flat hoof | | | | | | | | | ✓ | | 3.95 | 3.59 | 3.29 |
| 2135152 | 44-710662 | Soldering tip - chisel 2.4mm (.094") | | | | | | | | | ✓ | | 3.95 | 3.59 | 3.29 |
| 2144171 | 44-413081 | Soldering tip - conical 0.5mm | | | | | | | | | | ✓ | 3.95 | 3.59 | 3.29 |
| 2144163 | 44-413072 | Soldering tip - semi-chisel 0.8mm | | | | | | | | | | ✓ | 3.95 | 3.59 | 3.29 |
| 2144180 | 44-413071 | Soldering tip - semi-chisel wide 3.2mm | | | | | | | | | | ✓ | 4.49 | 3.95 | 3.59 |
| 2144155 | 44-413069 | Soldering tip - flat 1.6mm | | | | | | | | | | ✓ | 3.95 | 3.59 | 3.29 |

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
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Soldering Stands, Pots & Fume Extractors

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Electric & Manual Desolder Pumps

- Easily disassembles for cleaning
- Replacement tips available

2168261:

- UL listed
- One-hand operation
- Size: 10.5"L x 1.0"Dia.

1942139: Size: 13.3"L x 1.0"Dia.

19166: Size: 7.8"L x 0.8"Dia.

2131215: Size: 7.5"L x 0.8"Dia.



* Web Code: FXC

| Part No. | Description | 1 | 5 |
|----------|------------------------|---------|---------|
| 2168261 | Electric desolder pump | \$29.95 | \$26.95 |
| 2131021 | Vacuum desolder pump | 10.95 | 9.95 |
| 1942139 | Manual desolder pump | 8.95 | 7.95 |
| 19166 | Manual desolder pump | 8.95 | 7.95 |
| 2131215 | Manual desolder pump* | 7.95 | 8.49 |
| 2168270 | 1 tip for P/N 2168261 | 5.49 | 4.95 |
| 2146610 | 1 tip for P/N 1942139 | 1.75 | 1.49 |
| 22091 | 2 tips for P/N 19166 | 5.95 | 5.39 |

* Antistatic tip

11-Piece Soldering Aid Tool Kit

This kit combines all the tools you need in order to begin soldering.

Kit includes:

- 30-watt UL listed soldering iron
- Soldering iron stand
- Heat sink clamp
- Small slotted screwdriver with stripper
- Medium slotted screwdriver
- Medium philips screwdriver
- Tool case
- Solder
- Pliers
- Soldering tool
- Diagonal cutters



| Part No. | Cross Ref. No. | 1 | 5 |
|----------|----------------|---------|---------|
| 2132322 | GTK-059A | \$19.95 | \$18.95 |

Solder Spool Stand

- 12 pc. solder spool stand (some assembly required)
- Size: 3.6"W x 3.9"D x 4.3"H
- Shaft diameter: 0.6"

Solder not included



| Part No. | Description | Wt. (lbs.) | 1 | 5 | 25 |
|----------|--------------|------------|---------|---------|--------|
| 141761 | Solder stand | 1.6 | \$12.95 | \$11.49 | \$9.95 |

Circuit Board Clamping Kit

- Lightweight, easy to carry
- Retractable shelf and adjustment knob
- Max. board size: 7.8" x 5.5"
- Size: 11.8" x 6.5" x 4.9"



| Part No. | Mfr. Part No. | Wt. (lbs.) | 1 | 5 |
|----------|---------------|------------|---------|---------|
| 2237036 | VTHH6 | 1.0 | \$12.95 | \$11.49 |

PANAUSE PV Jr. Vise

- Jaw size: 1" wide x 2" long; opening: 2.8"
- Jaw heat tolerance: 350°F
- Vertical/horizontal jaw grooves
- Fine/course adjusting knob
- Vise height: 6.8"
- Weight: 1.4 lbs.
- Base bolt is 4.3" and fits all PanaVise base mounts



| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 134439 | PVJR 201 | \$29.95 | \$26.95 |

300-Watt Solder Pot

Temperature Regulated Between 420°C and 450°C

- 2 conductor power cord: 5' 9" long
- Holds up to 2.2 lbs. of solder bars recommend P/N 176057, pg 129
- Input voltage: 110VAC @ 2.7A; 50-60Hz
- Size: (unit) 4.8"H x 5.5" Dia. (base)
- Size: (tub) 2.4"Dia. x 1.6"D
- One-year warranty



| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|-----------------|------------|---------|---------|
| 1951625 | 300W solder pot | 5.9 | \$84.95 | \$74.95 |

Magnifier Third Hands

- Great for when two hands aren't enough
- 2 adjustable clamps for easy board hold
- 3.5" diopter 4 (2x magnification)

2196756: With iron stand, 2 LEDs & mini diopter 20 (6x magnification)



| Part No. | Mfr. Part No. | Size (in.) | 1 | 5 |
|----------|---------------|-----------------|---------|---------|
| 2196756 | VTHH3 | 8.3 x 6.7 x 4.3 | \$19.95 | \$17.95 |
| 2196764 | VTHH4 | 5.3 x 6.9 x 4.7 | 14.95 | 13.49 |

Third Hand Tools

- Two adjustable arms with alligator clip jaws
- Quick and easy rotation
- Sturdy, heavy base



| Part No. | Description | Size | Wt. (lbs.) | 1 | 5 |
|----------|--------------------|------|------------|--------|--------|
| 26690 | Third hand | 2.0" | 1.4 | \$7.95 | \$6.95 |
| 72865 | With holder/sponge | 2.0" | 1.4 | 8.95 | 7.95 |
| 681002 | With holder/sponge | 3.5" | 1.7 | 9.95 | 8.95 |

Soldering Tip Cleaner with Stand

- For cleaning soldering iron tips without the use of water and sponge
- Metal wool for cleaning
- Rubberized base for stability



| Part No. | Description | Wt. (lbs.) | 1 | 5 | 25 |
|----------|------------------------|------------|--------|--------|--------|
| 156777 | Tip cleaner and stand | 0.5 | \$6.95 | \$6.39 | \$5.79 |
| 160004 | Metal wool replacement | 0.1 | 2.95 | 2.59 | 2.29 |

Helping Hand with LED Magnifier Lamp

This is perfectly suited for soldering comfortably while keeping one hand free.

- Large lens with 2x magnification
- Small embedded lens to 4x magnification of extremely small parts
- Ring light with 16 LEDs and gooseneck for optimum lighting
- Easily adjustable hinge
- Adjust. third hand w/ 2 alligator clips
- Additional flexible 9.8" (250mm) gripping arm with alligator clip
- Solder wire reel holder
- Soldering iron holder
- Cast-iron base
- Stand size: 7.0"W x 7.0"H

* Web Code: YAU



Includes: Power adapter and sponge

| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|--------------|------------|---------|---------|
| 2168587 | Helping hand | 2.9 | \$74.95 | \$69.95 |

360° Clamp Vise

- Ball cup allows vise to adjust to any angle
- Rubber jaws open 2"
- Size: 10.0"L x 2.5"W



Includes: interchangeable pipe vise attachment

| Part No. | Cross Ref. | Wt. (lbs.) | 1 | 5 |
|----------|------------|------------|---------|---------|
| 127167 | OR-307 | 2.1 | \$17.95 | \$15.95 |

22-Watt Fume Extractor

Absorbs noxious lead fumes using activated-carbon filter and a high-efficiency fan

- Operate continuously providing filtered air
- Static ground jack
- Fuse protected
- Noise: 49dB fan
- Air flow: 115 CFM
- 120VAC, 60Hz, 22 watts
- Uses 130mm filters
- Large surface area w/ adjust. angles
- Size: 7.2"W x 5.4"D x 7.9"H
- One-year warranty



Includes: Detachable power cord

| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|-------------------------|------------|---------|---------|
| 2171786 | Fume extractor | 2.6 | \$44.95 | \$42.95 |
| 127183 | Replace. filters (3/pk) | 0.05 | 9.95 | 8.95 |

42-Watt Combo Soldering Station and Fume Extractor

- Power consumption: 42W @ 650°F (soldering iron)
- Adjustable knob for temperature control: 500°F to 800°F
- Stability @ idle: ±9°F
- Max. air volume: 95/115CFM
- LED indicator for pilot light
- Electronic zero-voltage switching
- Input voltage: 100-120VAC @ 60Hz
- Size: 6.4"W x 7.8"H x 4.7"D



Includes: Soldering iron, iron holder, sponge, carbon activated filter, power cord and manual

| Part No. | Mfr. Part No. | Wt. (lbs.) | 1 | 5 |
|----------|---------------|------------|---------|---------|
| 183169 | 456DLX | 5.2 | \$74.95 | \$68.95 |

Weller® 20-Watt Fume Extractor

This fume extractor removes flux fumes from the soldering workbench by drawing smoke through an activated carbon filter. With its exceptionally quiet fan, it can process up to 1.37 cubic meters of air per minute and its stand is adjustable, allowing it to be set-up in multiple positions.



- Voltage: 120VAC
- Air consumption: 87-107CFM
- Power consumption: 20W
- Absorption capacity: 1.25 cubic meters to 1.37 cubic meter per minute
- Size: 10"L x 6.5"W x 11"H
- Sound level: 45-50dB
- ESD safe
- UL/CUL listed

| Part No. | Mfr. Part No. | Wt. (lbs.) | 1 | 5 |
|----------|-------------------------|------------|---------|---------|
| 684810 | WSA350 | 4.2 | \$79.95 | \$71.95 |
| 684828 | WSA350F (carbon filter) | 0.02 | 7.95 | 7.55 |

* Fume Extractors — Enter Web Code HAR

FUME EXTRACTOR KIT

Everything you need in order to build your very own mini pocket-sized fume extractor.

Kit includes:

- Voltage regulator
- 12VDC fan
- 2 fan guards
- Replacement filter
- Heat shrink
- Jumper wire
- Two 9V batteries with clips
- Tin enclosure
- For step-by-step instructions, visit the workshop center at www.Jameco.com/Fume



| Part No. | Description | 1 | 5 |
|----------|---------------------------|---------|---------|
| 2137481 | 13-pc. fume extractor kit | \$17.95 | \$15.95 |

Vises, Soldering Accessories & Tape Products

PANAVISE Multi-Purpose Work Center

- Jaws open to 9"
- Double action extra wide self-centering heads allow fast opening and closing; centered weight allows jaws to hold heavier objects; plates can be reversed to close together; reversible jaw pads feature ribbing on one side and a V groove on the other
- Base has three 1/4" countersunk mounting holes
- Overall base diameter is 8.5"

| Part No. | Mfr. Part No. | Wt. (lbs.) | 1 | 5 |
|----------|---------------|------------|---------|---------|
| 684852 | 350 | 5.0 | \$89.95 | \$84.95 |

Electronic Work Center

- Size: 8.5"W x 7.8"H
- Includes: Circuit board holder, standard base, tray base mount and wire holder

| Part No. | Mfr. Part No. | Wt. (lbs.) | 1 | 5 |
|----------|---------------|------------|---------|---------|
| 27060 | 324 | 5.3 | \$99.95 | \$89.95 |

PANAVISE Rapid Assembly Circuit Board Holder

- 8 positions rotating adjustment, six positive lock positions in the vertical plane and height adjustment for quick board rotation speeds
- Holds circuit boards from 1/8" (3.2mm) to 12" (304.8mm) wide and up to 5/32" (4mm) thick
- Arms move independently • 10" high

| Part No. | Mfr. Part No. | Wt. (lbs.) | 1 | 5 |
|----------|---------------|------------|---------|---------|
| 684844 | 333 | 6.4 | \$86.95 | \$79.95 |

PANAVISE Vacuum Base Vise

- Head moves through three planes: 210° tilt, 360° turn and rotation
- Grooved jaws are made of reinforced thermal alloy and open up to 2.9"
- Fine/coarse adjustment • Base dia.: 3.4"
- Jaw size: 2.0"H x 1.0"W • Height: 7.5"H

| Part No. | Mfr. Part No. | Wt. (lbs.) | 1 | 5 |
|----------|---------------|------------|---------|---------|
| 251791 | 209 | 0.8 | \$29.95 | \$27.95 |

JAMECO BenchPro Vacuum Base Vises

- Features the patented "split ball" that tilts, turns and rotates through three planes
- Powerful suction pad for quick and easy set-up
- Nylon jaws open 2.25"
- Size: 5.0"L x 4.0"W x 6.3"H

| Part No. | Product No. | Wt. (lbs.) | 1 | 5 |
|----------|-------------|------------|---------|---------|
| 262116 | GV-300 | 3.3 | \$36.95 | \$33.95 |

JAMECO BenchPro LED Lighted Helping Hand

- Two alligator clip jaws
- Two LED lighting w/ adjustable gooseneck for optimum lighting
- Main lens of 2.56" with 3.5x magnification and accessory lens of 0.67" with 12x magnification
- Bottom battery compartment is furnished with steel plate base for great stability
- Includes: 3 AAA batteries

| Part No. | Description | 1 | 5 |
|----------|----------------------|---------|---------|
| 2218302 | Lighted helping hand | \$13.95 | \$12.49 |

*Vises — Enter Web Code TAD

Solder Bars, Rolls and Pocket Packs

Due to extraordinary price fluctuations, solder prices are subject to change.

| Part No. | Manufacturer | % Composition | | | | Diameter Inches/mm | Weight | Type† | Pricing | |
|----------|--------------|---------------|------|--------|--------|--------------------|-----------|-------|---------|---------|
| | | Tin | Lead | Silver | Copper | | | | 1 | 10 |
| 2210132 | Kester | 60 | 40 | — | — | 0.025/0.64 | 1.0 lbs. | 1 | \$29.95 | \$27.95 |
| 2238135 | BenchPro | 60 | 40 | — | — | 0.025/0.64 | 1.1 lbs. | 1 | 26.95 | 22.95 |
| 73576 | Kester | 60 | 40 | — | — | 0.031/0.787 | 0.5 oz. | 2 | 2.69 | 2.49 |
| 32117 | Kester | 60 | 40 | — | — | 0.031/0.787 | 1.08 lbs. | 1 | 25.95 | 23.95 |
| 2184616 | Kester | 60 | 40 | — | — | 0.062/1.57 | 1.03 lbs. | 1 | 25.95 | 23.95 |
| 141786 | ValuePro | 60 | 40 | — | — | 0.031/0.787 | 1.13 lbs. | 1 | 23.95 | 21.95 |
| 176057 | ValuePro | 60 | 40 | — | — | 12.5x0.75x0.44 | 1.1 lbs. | 3 | 27.95 | 25.95 |
| 2188220 | Kester | 60 | 40 | — | — | 0.05/1.27 | 1.0 lbs. | 1 | 24.95 | 22.95 |
| 94570 | Kester | 60 | 40 | — | — | 0.05/1.27 | 1.3 oz. | 2 | 4.49 | 4.25 |
| 2210124 | Kester | 60 | 40 | — | — | 0.040/1.02 | 1.0 lbs. | 1 | 25.95 | 23.95 |
| 73605 | Kester | 62 | 36 | 2.0 | — | 0.02/0.51 | 0.35 oz. | 2 | 2.99 | 2.85 |
| 2177694 | ValuePro | 63 | 37 | — | — | 0.015/0.38 | 1.0 lbs. | 1 | 23.95 | 22.49 |
| 2237571 | Kester | 63 | 37 | — | — | 0.020/0.51 | 1.0 lbs. | 1 | 35.95 | 33.95 |
| 2210116 | Kester | 63 | 37 | — | — | 0.025/0.64 | 1.0 lbs. | 1 | 26.95 | 24.95 |
| 2237626 | Kester | 63 | 37 | — | — | 0.031/0.79 | 0.5 oz. | 2 | 2.75 | 2.59 |
| 2210087 | Kester | 63 | 37 | — | — | 0.031/0.79 | 1.0 lbs. | 1 | 26.95 | 24.95 |
| 2238143 | BenchPro | 63 | 37 | — | — | 0.031/0.79 | 1.1 lbs. | 1 | 23.95 | 21.95 |
| 151474 | Kester* | 63 | 37 | — | — | 0.031/0.787 | 1.0 lbs. | 1 | 26.95 | 24.95 |
| 2188246 | Kester | 63 | 37 | — | — | 0.031/0.787 | 1.0 lbs. | 1 | 26.95 | 24.95 |
| 2237589 | Kester | 63 | 37 | — | — | 0.040/1.02 | 1.0 lbs. | 1 | 27.95 | 25.95 |
| 2158178 | Kester | 63 | 37 | — | — | 0.05/1.27 | 1.0 lbs. | 1 | 27.95 | 25.95 |
| 2238151 | BenchPro | 63 | 37 | — | — | 0.050/1.27 | 1.1 lbs. | 1 | 23.95 | 21.95 |
| 2237600 | Kester | 63 | 37 | — | — | 0.062/1.57 | 1.0 lbs. | 1 | 27.95 | 25.95 |
| 2237618 | Kester | 63 | 37 | — | — | 12.0x1.0x0.5 | 1.3 lbs. | 3 | 27.95 | 25.95 |
| 668262 | ValuePro | 96.3 | — | 3.2 | 0.5 | 0.04/1.02 | 7.2 oz. | 1 | 36.95 | 33.95 |
| 2113172 | Kester | 96.5 | — | 3.0 | 0.5 | 0.031/0.787 | 0.43 oz. | 2 | 4.49 | 4.25 |
| 170457 | ValuePro | 99.3 | — | — | 0.7 | 0.031/0.787 | 0.8 oz. | 2 | 3.25 | 2.95 |
| 668078 | ValuePro | 99.3 | — | — | 0.7 | 0.04/1.02 | 9.15 oz. | 1 | 24.95 | 22.49 |
| 209075 | ValuePro | 99.3 | — | — | 0.7 | 0.031/0.787 | 1.0 lbs. | 1 | 34.95 | 31.95 |

*Organic core †1. Roll; 2. Packet; 3. 13" Bar

TECHSPRAY Chemtronics 5' Desolder Braids

| Part No. | Manufacturer | Product No. | Description | Width (in.) | 1 | 10 |
|----------|--------------|-------------|--|-------------|--------|--------|
| 2188748 | Philips | ZW050-5 | Zip wick, Military/NASA certified, 5' | .005 | \$2.49 | \$2.25 |
| 2203776 | Techspray | 1821-5F* | No-Clean, Military/NASA certified, 5' | .055 | 2.49 | 2.25 |
| 124126 | Techspray | 1815-5F | No-Clean, Military/NASA certified, 5' | .055 | 4.95 | 4.49 |
| 2203784 | Techspray | 1822-5F* | No-Clean, Military/NASA certified, 5' | .075 | 3.49 | 3.09 |
| 124118 | Techspray | 1816-5F | No-Clean, Military/NASA certified, 5' | .075 | 4.39 | 3.95 |
| 2203792 | Techspray | 1823-5F* | No-Clean, Military/NASA certified, 5' | .098 | 3.49 | 3.09 |
| 263708 | Techspray | 1817-5F | No-Clean, Military/NASA certified, 5' | .098 | 5.19 | 4.65 |
| 2203805 | Techspray | 1825-5F* | No-Clean, Military/NASA certified, 5' | .193 | 4.49 | 3.95 |
| 2192430 | Philips | ZW100-5 | Zip Wick Military/NASA certified, 5' | .100 | 2.95 | 2.39 |
| 2192843 | Philips | ZW100-100† | Zip Wick Military/NASA certified, 100' | .100 | 7.95 | 6.95 |
| 2203768 | Techspray | 1810-5F* | Pro Wick, pure rosin 5' | .075 | 2.75 | 2.49 |
| 263695 | Techspray | 1803-5F | Pro Wick, pure rosin, 5' | .075 | 3.65 | 3.35 |
| 263599 | Techspray | 1804-5F | Pro Wick, pure rosin, 5' | .098 | 4.49 | 3.95 |
| 263581 | Techspray | 1811-5F | Pro Wick, pure rosin w/ bobbin, 5' | .098 | 3.25 | 3.09 |
| 41082 | ValuePro | GISW20 | Desolder braid, solder wick, 5' | .079 | 1.95 | 1.75 |
| 41100 | ValuePro | GISW25 | Desolder braid, solder wick, 5' | .098 | 1.95 | 1.75 |
| 153462 | ValuePro | GSR104D | Desolder braid, solder wick, 5' | .120 | 2.19 | 1.99 |
| 2113148 | Chemtronics | 60-4-5 | Soder-Wick® no clean size 4, 5' | 0.11 | 5.29 | 4.75 |

*Anti static †100 feet

3M Tape Products

| Part No. | Description | Color | Width | Length | Thickness | 1 | 10 | 50 |
|----------|--|--------|-------|----------|-----------|--------|--------|--------|
| 285587 | Vinyl electrical tape, Tartan 1710, UL | Black | .75" | 20 yards | .007" | \$1.59 | \$1.45 | \$1.25 |
| 2153764 | Vinyl electrical tape, temflex | Black | .75" | 20 yards | .007" | 1.49 | 1.35 | 1.19 |
| 1643551 | Embossed copper foil, 1245 tape | Copper | .50" | 18 yards | .004" | 21.95 | 20.95 | 19.95 |
| 285907 | Double sided foam tape | White | 1.0" | 4 yards | .125" | 18.95 | 16.95 | 14.95 |

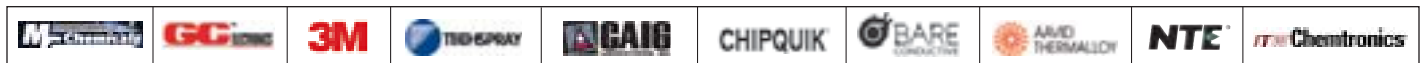
*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Workshop Chemicals & Heat Sink Compounds

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



Workshop Chemicals & Heat Sink Compounds

| Part No. | Manufacturer | Description | Vol. (oz.) | 1 | 5 |
|----------|------------------|--|------------|--------|--------|
| 615769 | GC Electronics | Adhesive, sealant, silicon, one part, non corrosive, clear | 3 | \$5.95 | \$5.39 |
| 2094207 | Caig/DeoxIT | Air duster, non-flammable, moisture free, non-ozone depleting, no VOC* | 10 | 8.95 | 7.95 |
| 2112524 | ChipQuik | Cleaner & tinner, soldering tip for pre-tinning & tinning* | 8† | 10.95 | 9.95 |
| 2094231 | Caig/DeoxIT | Cleaner wash, contact evaporates quickly, safe on plastics* | 10 | 9.95 | 8.95 |
| 195004 | Caig/DeoxIT | Cleaner, contact dioxidizer & preservative, improves electronic connections* | 5 | 17.95 | 15.95 |
| 2094215 | Caig/DeoxIT | Cleaner & conditioner, soldering tip | 0.5 | 8.95 | 7.95 |
| 616331 | GC Electronics | Conductive paint, silver print II* | 0.5# | 54.95 | 49.95 |
| 2110529 | Caig/DeoxIT | Circuit writer pen, silver based, for drawing & repairing traces, works on rubb., epoxy, glass, plastic* | 5g† | 26.95 | 23.95 |
| 525851 | Chemtronics | Cotton swabs, double headed, 6" handle, 100-pack | — | 5.95 | 5.65 |
| 2157941 | 3M | Electrical coating FD, fast drying sealant and bonding agent | 15 | 29.95 | 26.95 |
| 616438 | GC Electronics | Etching solution, PC board, ferric chloride solution* | 32 | 24.95 | 22.95 |
| 2188262 | MG Chemicals | Ferric chloride copper etchant solution, etches PCBs 175-200 pinch/minute* | 33 | 17.95 | 15.95 |
| 616446 | GC Electronics | Etching solution, PC board, ferric chloride solution* | 128 | 47.95 | 42.95 |
| 139934 | Techspray | Freeze spray, Envi-Ro-Tech, circuit chiller, CFC and HFC free* | 8 | 18.95 | 16.95 |
| 615355 | GC Electronics | Heat sink compound, 100% synthetic base stocks type 44 | 16† | 35.95 | 33.95 |
| 236823 | ValuePro | Heat sink compound, silicon based grease | 0.35† | 4.95 | 4.49 |
| 167249 | Aavid Thermalloy | Heat sink compound, silicon based grease* | 2† | 8.95 | 7.95 |
| 169252 | Techspray | Heat sink compound, silicon free | 4† | 29.95 | 28.49 |
| 259151 | NTE | Heat sink compound, white gel, thermal grease (5 pack) | 1g† | 2.95 | 2.49 |
| 615312 | GC Electronics | Heat sink compound, zinc oxide-filled silicon grease | 0.23† | 3.95 | 3.59 |
| 615321 | GC Electronics | Heat sink compound, zinc oxide-filled silicon grease | 1† | 7.95 | 6.95 |
| 615304 | GC Electronics | Heat sink compound, zinc oxide-filled silicon grease | 16† | 29.95 | 26.95 |
| 2188289 | MG Chemicals | Liquid isopropyle alcohol, general purpose cleaner* | 33.8 | 14.95 | 13.49 |
| 2201771 | MG Chemicals | Liquid rosin flux pen, fully activated, RA type, non-corrosive, non-conductive* | 0.34 | 12.95 | 11.65 |
| 118041 | Techspray | Solder flux remover, ECONOLINE, CFC free, aerosol can* | 13.5 | 15.95 | 14.95 |
| 2237634 | Kester | Solder flux dispensing pen, non-rosin organic, low solids no clean* | 0.33 | 11.95 | 10.95 |
| 2237642 | Kester | Solder flux dispensing pen, mildly activated liquid rosin* | 0.33 | 11.95 | 10.95 |
| 1586015 | Chipquik | Solder flux, tack for rework, no clean, 10cc w/ syringe | 0.34 | 18.95 | 16.95 |
| 481764 | Techspray | Solder flux, dispensing pen, No-clean, resin & halide free leaves no residue* | 0.38 | 9.95 | 8.95 |
| 615224 | GC Electronics | Solder flux, liquid, non corrosive, solution of special rosin in alcohol* | 2 | 8.95 | 7.95 |
| 615232 | GC Electronics | Solder flux, liquid, non corrosive, solution of special rosin in alcohol* | 16 | 24.95 | 22.95 |
| 2094258 | Caig/DeoxIT | Solder flux, rosin paste for electronic applications including PCBs* | 2 | 10.95 | 9.95 |
| 2113092 | Chemtronics | Solder flux, rosin dispensing pen, for electronic applications including PCBs* | 0.32 | 11.95 | 10.95 |
| 2098208 | Chipquik | Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe* | 0.34 | 23.95 | 21.49 |
| 2098224 | Chipquik | Solder paste, 63% SN, 37% PB, no clean 10cc w/ syringe, water washable* | 0.34 | 24.95 | 22.95 |
| 2097441 | Chipquik | Solder paste, 96.5% SN, 3% AG, 0.5% CU, no clean 10cc w/ syringe* | 0.34 | 24.95 | 23.49 |

* Shipped via ground to continental U.S. only # Troy ounces † Measured by weight



ProtoDough Reusable Prototyping Design Plastic

- Create custom molds of any design quickly and easily
- High elongation break points
- Non-toxic, lightweight and paintable
- Can be drilled, sawed and machined • 3.5mm pellets
- Safe for hand molding • Melting point temperature: 136°F-140°F

| Part No. | Cross Ref. No. | Description | 1 | 5 |
|----------|-------------------|---------------|---------|---------|
| 2208286 | Proto Dough-250G | 250 gram bag | \$12.95 | \$11.65 |
| 2208307 | Proto Dough-1000G | 1000 gram bag | \$34.95 | \$31.95 |



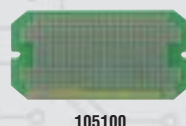
* Workshop Chemicals — Enter Web Code YAQ

* Heat Sink Compounds — Enter Web Code YBA

BEST SELLING PROTOBOARDS

* Web Code: PBH

| Part No. | Size | Hole Pads | # of Holes x Dia. | Fits Enclosure | Price |
|----------|-----------|--------------|-------------------|----------------|--------|
| 105100 | 1.6 x 2.7 | Single sided | 288 x 0.035" | 18922 | \$6.95 |
| 105129 | 2.0 x 4.4 | Single sided | 669 x 0.038" | 18914, 11965 | 6.95 |
| 206587 | 4.3 x 6.8 | Single sided | 2550 x 0.042" | 209350 | 8.95 |



Cleaning Brushes

- Metal handle

| Part No. | Description | Length | 1 | 10 | 100 |
|----------|---------------|--------|--------|--------|--------|
| 153322 | Soft bristles | 6" | \$0.79 | \$0.69 | \$0.59 |

Plastic Pump Bottle

- 6 oz. bottle
- ESD compliant
- Plastic bottle with dispenser cover
- Color: light blue
- Solvent dispenser

| Part No. | Cross Ref. | 1 | 5 | 25 |
|----------|------------|---------|---------|---------|
| 158131 | 450 | \$14.95 | \$13.49 | \$11.95 |

Clip-On Heat Sink

- Absorbs and dissipates heat during soldering and desoldering sensitive parts

| Part No. | Cross Ref. | Size | 1 | 10 | 100 |
|----------|------------|---------------|--------|--------|--------|
| 159126 | HT156 | 2.7"L x 0.7"W | \$2.95 | \$2.59 | \$2.29 |

* Cleaning Tools — Enter Web Code CLE

Solderless Breadboards & Jumper Wires



PARALLAX

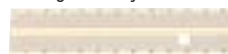
Solderless Breadboards



*Web Code: HAC

The screen-printed color coordinates are suitable for many types of digital and analog prototyping and circuit design. Larger models feature a heavy-duty aluminum backing with binding posts. Use with Jameco's AC/DC breadboard power supply, P/N 77682 (below).

- Accepts most electronic components, including integrated circuits and transistors for digital and/or analog circuitry
- Ideal for high frequency and low noise circuits
- Pins are identified by numbered rows and columns • 0.1" hole spacing • One-year warranty
- Components are easily interconnected using 20-28 AWG wire (P/N 19290 & 20080, below)



20670

20758

20812

| Part No. | Manufacturer | Product No. | Terminal Strips | Bus Strips | Contact Points | Binding Posts | Breadboard Size (L" x W") | Baseplate Size (L" x W") | Weight (lbs.) | Pricing | | | |
|----------|--------------|--------------|-----------------|------------|----------------|---------------|---------------------------|--------------------------|---------------|---------|--------|--------|--------|
| | | | | | | | | | | 1 | 10 | 50 | 100 |
| 94457 | ValuePro | JE19* | 0 | 2 | 100 | 0 | 6.5 x 0.4 | — | 0.04 | \$3.49 | \$3.09 | \$2.75 | \$2.49 |
| 2155452 | ValuePro | WBP-317 | 1 | 0 | 170 | 0 | 1.9 x 1.3 | — | 0.03 | 2.95 | 2.59 | 2.29 | 1.95 |
| 2109801 | Parallax | 700-00012 | 1 | 0 | 170 | 0 | 1.8 x 1.4 | — | 0.03 | 4.95 | 4.49 | 3.95 | 3.59 |
| 2155461 | ValuePro | WBP-323 | 1 | 2 | 270 | 0 | 2.6 x 1.6 | — | 0.05 | 3.95 | 3.59 | 3.29 | 2.95 |
| 2157693 | ValuePro | BB-801 | 1 | 2 | 400 | 0 | 3.3 x 2.1 | — | 0.11 | 4.49 | 3.95 | 3.59 | 3.25 |
| 20601 | ValuePro | WBU-301-R# | 1 | 2 | 400 | 0 | 3.3 x 2.1 | — | 0.13 | 4.49 | 3.95 | 3.59 | 3.25 |
| 2229175 | ValuePro | MKKN2§ | 1 | 2 | 400 | 0 | 3.3 x 2.1 | — | 0.09 | 4.95 | 4.49 | 3.95 | 3.59 |
| 2123830 | BusBoard | BB400T | 1 | 2 | 400 | 0 | 3.3 x 2.1 | — | 0.13 | 5.95 | 5.39 | 4.75 | 4.25 |
| 20670 | Wisher | WBU-TN-R# | 1 | 0 | 630 | 0 | 6.5 x 1.4 | — | 0.20 | 6.95 | 6.25 | 5.59 | 4.95 |
| 2157706 | ValuePro | BB-102† | 1 | 2 | 830 | 0 | 6.5 x 2.2 | — | 0.21 | 5.49 | 4.95 | 4.49 | 3.95 |
| 20723 | ValuePro | WBU-202-R# | 1 | 2 | 830 | 0 | 6.5 x 2.2 | — | 0.30 | 9.95 | 8.95 | 7.95 | 6.95 |
| 2125026 | ValuePro | BB830T§ | 1 | 2 | 830 | 0 | 6.5 x 2.2 | — | 0.3 | 6.95 | 6.25 | 5.95 | 5.49 |
| 194272 | Wisher | WBU-204-1-R# | 2 | 3 | 1,560 | 3 | 6.5 x 4.0 | 8.5 x 4.7 | 0.73 | 17.95 | 15.95 | 14.49 | 12.95 |
| 20758 | ValuePro | WBU-204-3-R# | 2 | 1 | 1,360 | 2 | 6.5 x 3.1 | 8.5 x 4.0 | 0.60 | 13.95 | 12.49 | 11.49 | 10.49 |
| 20774 | ValuePro | WBU-204# | 2 | 4 | 1,660 | 3 | 6.5 x 4.4 | 8.5 x 5.2 | 0.70 | 19.95 | 17.95 | 15.95 | 14.49 |
| 136901 | Wisher | WBU-504 | 2 | 3 | 1,855 | 4 | 5.3 x 5.6 | 7.5 x 6.3 | 0.90 | 20.95 | 18.95 | 16.95 | 15.49 |
| 2157722 | ValuePro | BB-3T5D† | 3 | 5 | 2,390 | 4 | 6.9 x 5.8 | 8.7 x 7.2 | 1.28 | 19.95 | 17.95 | 15.95 | 14.49 |
| 20791 | ValuePro | WBU-206# | 3 | 5 | 2,390 | 4 | 6.9 x 5.8 | 9.1 x 6.9 | 1.10 | 26.95 | 23.95 | 21.95 | 19.95 |
| 2157731 | ValuePro | BB-4T7D† | 4 | 7 | 3,220 | 4 | 7.3 x 7.5 | 9.3 x 8.1 | 1.60 | 26.95 | 23.95 | 21.95 | 19.95 |
| 20812 | ValuePro | WBU-208# | 4 | 7 | 3,220 | 4 | 7.3 x 7.5 | 9.5 x 8.3 | 1.40 | 35.95 | 32.95 | 29.95 | 26.95 |

* Pack of 2

† Interconnect with each other

Interconnect with each other

§ Adhesive back/no baseplate



Powered Project Breadboard

- Solderless breadboard with 2,420 tie points
- Outputs are short-circuit protected
- Includes: 3-prong power cord
- Input power: 110VAC or 220VAC @ 50-60Hz (switch selectable)
- Triple output power supply: fixed 5VDC @ 1.5A; 0 to ±16VDC @ 0.5A (adjustable)
- Breadboard size: 6.9"L x 5.8"W
- Overall size: 9.8"L x 7.8"W x 3.0"H

*Web Code: XAT



| Part No. | Description | Wt. (lbs.) | 1 | 5 |
|----------|-----------------------------|------------|----------|----------|
| 1942163 | 5VDC @ 1.5A & ±16VDC @ 0.5A | 5.8 | \$129.95 | \$114.95 |

Breadboard and Jumper Wire Kit

This kit is perfect for easy prototyping!



| Part No. | Description | 1 | 5 | 25 |
|----------|---|---------|---------|---------|
| 2134993 | 830-point breadboard with 70-piece wire kit | \$12.95 | \$11.95 | \$10.95 |



Wire Jumper Kits

- 0.1" to 5.0" lengths (14 sizes)
- Clear plastic durable case
- Pre-stripped/preformed
- 22 AWG solid wire jumpers in 10 colors

*Web Code: LAS

19290



| Part No. | Description | * Order in multiples of 10 | | | |
|----------|----------------------------------|----------------------------|--------|--------|--------|
| | | 1 | 10 | 50 | 250 |
| 2127718 | 70-piece kit, 5 of each length | \$6.95 | \$5.49 | \$4.75 | \$3.95 |
| 2096018 | 140-piece kit, 10 of each length | 8.95 | 6.95 | 6.25 | 5.49 |
| 19290 | 350-piece kit, 25 of each length | 12.95 | 10.95 | 9.95 | 8.95 |
| 20080 | 350 pieces, refill for P/N 19290 | 10.95 | 9.49 | 8.49 | 7.49 |
| 2213229 | 0.5" black wire jumper | * | .12 | .10 | .08 |
| 2213211 | 0.5" red wire jumper | * | .12 | .10 | .08 |
| 2213202 | 0.5" yellow wire jumper | * | .12 | .10 | .08 |
| 2213190 | 0.75" black wire jumper | * | .15 | .13 | .11 |
| 2213173 | 1.0" black wire jumper | * | .17 | .15 | .12 |
| 2213165 | 2.0" blue wire jumper | * | .15 | .12 | .10 |



Reinforced Jumper Wires

*Web Code: LAS

These jumper wires are exactly what you need to build the circuits you have designed on breadboards. The various lengths of the wire can help make your circuit concise and less cluttered for larger designs.

126342



| Part No. | Mfr. | AWG | Length (in.) | Number of Wires per Color | 1 | 10 |
|----------|----------|-------|--------------------|---|--------|--------|
| 126360 | ValuePro | 24 | 1.97 | 2 ea. yellow/white/red/black/blue† | \$4.95 | \$4.49 |
| 126342 | ValuePro | 24 | 3.94 | 2 ea. yellow/white/red/black/blue† | 5.95 | 5.49 |
| 126325 | ValuePro | 24 | 7.87 | 2 ea. yellow/white/red/black/blue† | 5.95 | 5.49 |
| 421315 | ValuePro | 24 | 5.90 | 4 ea. green/white/red/black/blue† | 10.95 | 9.95 |
| 2214555 | Velleman | 22-26 | 5.9 | 1 ea. of 10 assorted colors† | 4.49 | 3.95 |
| 2214563 | Velleman | 22-26 | 5.9 | 1 ea. of 10 assorted colors§ | 4.49 | 3.95 |
| 2214571 | Velleman | 22-26 | 5.9 | 1 ea. of 10 assorted colors† | 4.49 | 3.95 |
| 2229191 | ValuePro | 24 | 4.0, 5.9, 7.9, 9.8 | 65 total of 7 assorted colors† | 5.95 | 5.49 |
| 2150467 | Dagu | 26 | 1.6, 3.2, 4.8 | 28 ea. green/red/black/white/orange* | 12.95 | 11.49 |
| 2213405 | DFRobot | 26 | 4.3, 5.9, 7.9, 9.5 | 65 total of 7 assorted colors§ | 6.95 | 6.39 |
| 2237044 | Velleman | 22 | 3.9, 5.9, 7.9, 9.8 | 65 total of 7 assorted colors§ | 6.95 | 6.25 |
| 2213456 | DFRobot | 26 | 7.8 | 6 ea. of red/blue/black/white/green§ | 5.95 | 5.39 |
| 2260738 | BPS | 28 | 7.9 | 4 ea. of 10 colors, zipwire ribbon† | 4.95 | 4.49 |
| 2260746 | BPS | 28 | 7.9 | 4 ea. of 10 colors, zipwire ribbon† | 4.95 | 4.49 |
| 2260754 | BPS | 28 | 7.9 | 4 ea. of 10 colors, zipwire ribbon§ | 4.95 | 4.49 |
| 2260762 | BPS | 28 | 3.9, 7.9 | 16 ea. of 10 colors (80)†, (40)§, (40)† | 17.95 | 16.49 |

* Contains 100 male-male cables, 40 female-female cables

† Male to male cables

§ Male to female

‡ Female to female



SMT to DIP Adapter

This adapter makes it easy to prototype with surface mount ICs on your solderless breadboard. Simply solder the IC onto the adapter and the pins will plug directly into your board.

- Each one includes a row of headers for use with breadboards

*Web Code: HDS

| Part No. | Mfr. | Part No. | Pitch | No. of Boards | 1 | 10 |
|----------|-------------|----------|---------------------------------------|---------------|--------|--------|
| 2130263 | 204-0004-01 | 1.27mm | 3 (one 8-pin, one 18-pin, one 28-pin) | .. | \$8.95 | \$7.95 |

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box



Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

JAMECO ValuePro Deluxe Electronic Kits



2129115 Top



2129115 Bottom



2129123 Top



2129123 Bottom

2129115: 219 pieces; fuses, battery holders, batteries, potentiometers, loudspeaker, capacitors, resistors, photoresistors, transistors, switches, LEDs, clips, jumper and hookup wires, breadboard, AC adapter, and deluxe carrying case P/N 2129131

2129123: 109 pieces; voltage regulators, relays, diodes, switches, potentiometers, logic chips, DIP sockets, inverters, counters, timers, headers, 3-digit display, numeric keypad, DC power jacks, binding posts, solder tube, heat shrink tubing, printed circuit boards, clips, IC inserter, IC extractor, anti-static wristband, helping-hands, project box, deluxe carrying case P/N 2129131

2129131: Clear flip-top lid with 26 built-in compartments, case with 8 interchangeable compartments, snap-lock closure

- Color: black with clear lid
- Size: 15"L x 11.25"W x 3.75"H

* Web Code: CKS

| Part No. | Description | 1 | 5 |
|----------|---------------------------|---------|---------|
| 2129115 | 219 pcs. deluxe kit | \$89.95 | \$80.95 |
| 2129123 | 109 pcs. deluxe kit | 99.95 | 89.95 |
| 2129131 | Case with 34 compartments | 19.95 | 17.95 |

JAMECO ValuePro Component Cabinets



319600



319611

319601 Components not included

Drawer (319601)
Divider (319611)

319600:

- Drawer can be divided into 3 sections (clear)
- Wall mountable cabinet (ABS black)
- Cabinet size: 14.7"W x 6.0"D x 7.4"H

Includes: 20 clear plastic drawers, 20 dividers and 30 adhesive I.D. labels

319601 (drawer): 5.5"L x 2.7"W x 1.5"H

319611 (divider): 2.5"W x 1.2"H

Included with every kit on page 29!

2213675: • Cabinet size: 17.6"L x 7.0"D x 9.8"H
• Counter-top design (ABS white)

Includes:

14 clear plastic drawers in 3 sizes:

(10) 6.4"L x 3.4"W x 1.5"H,

(3) 8.8"L x 6.4"W x 1.5"H,

(1) 8.8"L x 6.4"W x 3.3"H

and 20 adhesive I.D. labels

2213675

* Order in multiples of 10

| Part No. | Description | 1 | 10 | 50 |
|----------|----------------------------|---------|---------|---------|
| 319600 | 20-drawer cabinet | \$19.95 | \$17.95 | \$15.95 |
| 2213675 | 14-drawer cabinet | 29.95 | 26.95 | 23.95 |
| 319601 | Drawer for cabinet | .49 | .45 | .39 |
| 319611 | Drawer divider for cabinet | * | .19 | .15 |



Plastic Container Tub with Lid



- Height: 3.5" • Diameter: 3.5"
- Color: white
- Volume unit: 16 oz.

NEW MARKED IN PINK

| Part No. | Mfr. Part No. | 1 | 10 | 100 |
|----------|---------------|------|------|------|
| 2228412 | PTL312 | \$59 | \$49 | \$39 |

Breadboard Power Supply

This power supply is a very simple pre-assembled board that takes a 6-12V input and outputs a selectable 5V or 3.3V regulated voltage. All headers are 0.1" pitch for simple insertion into a breadboard. It can be powered from a 2.1mm DC power jack or from a USB port. No assembly required.

- Output: 3.3V/5V @ 500mA max.
- Input: 6-12V (power jack) or 5V (USB)
- 0.1" pin spacing perfect for breadboards
- On/Off switch
- Power status LED

| Part No. | Size (L" x W") | 1 | 5 |
|----------|----------------|--------|--------|
| 2157853 | 1.7 x 1.2 | \$7.95 | \$6.95 |



Plastic Flipped Boxes

- Clear plastic box with lid

100256/148902: includes removable dividers

100256: 18 compartments

148902: 12 compartments



| Part No. | Size (L" x W" x H") | 1 | 10 | 25 |
|----------|---------------------|--------|--------|--------|
| 100256 | 8.4 x 4.5 x 1.4 | \$2.95 | \$2.59 | \$2.29 |
| 2156172 | 8.7 x 6.5 x 2.3 | 4.49 | 3.95 | 3.59 |
| 148902 | 10.2 x 4.7 x 1.6 | 5.95 | 4.95 | 4.49 |

† No dividers

* Enclosures and Boxes — Enter Web Code UAL

JAMECO ValuePro Digital Design Lab

- 1580 tie points
- Fixed power supply: +5VDC @ 1.0A
- Two 7-segment displays (digit height: 0.3")
- Digital voltmeter • One-year warranty

Solderless Breadboard

- Interconnected nickel-plated tie points, fitting all DIP sizes and all components with AWG #22-30 (0.3-0.8mm) solid leads

DC Power Supplies

- DC supplies equipped with short-circuit protection
- Variable DC power: 0 to ±15V @ 0.3A

Function Generator (6 ranges)

- Sine/triangle wave output: 0-5Vp-p variable
- Frequency ranges: 0.1Hz-2Hz, 1Hz-20Hz, 10Hz-200Hz, 100Hz-2kHz, 1kHz-20kHz, 10kHz-200kHz
- Square wave output: 0-15Vp-p

Universal Counter

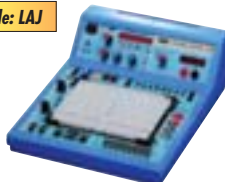
- 1Hz-100MHz, with 8-digital 7-segment LED display

Includes: Power cord and manual

| Part No. | Description | Size (W" x D" x H") | Wt. (lbs.) | 1 | 5 |
|----------|------------------------|---------------------|------------|----------|----------|
| 75839 | Digital lab | 10.6 x 13.3 x 5.0 | 8.1 | \$489.95 | \$439.95 |
| 1952599 | Replacement breadboard | 4.5 x 6.75 x 0.37 | 0.5 | 29.95 | 26.95 |

Our most popular digital lab!

* Web Code: LAJ



International 115/220VAC Switchable

JAMECO ValuePro Digital/Analog Design Labs

Solderless Breadboard

- 2712 connections; fits AWG #22-30 (0.3-0.8mm)

DC Power Supplies

- Fixed DC output: +5VDC @ 1A; -5VDC @ 300mA
- Variable DC output: 0 to ±15V @ 500mA (P/N 136267) and 0 to ±15V @ 1A (P/N 1919211)

- Input power: 110/220VAC @ 50-60Hz (switchable)

Function Generator (6 Ranges)

- Triangle wave output: 0-5Vp-p variable
- Frequency ranges: 0.1Hz-2Hz, 1Hz-20Hz, 10Hz-200Hz, 100Hz-2kHz, 1kHz-20kHz, 10kHz-200kHz
- Sine wave output: 0-5Vp-p variable

Other Features

- 2.5" dia., 8Ω, 25W speaker
- 2 pulse switches (2 sets of outputs: A, A, B, B)
- Two 7-segment LED displays (digit height: 0.3")
- 2 banana sockets, 2 BNC jacks
- 2.5" dia., 8Ω, 25W speaker
- 2 banana sockets, 2 BNC jacks

136267:

- 8 data switches
- 8-bit red LEDs
- 100MHz universal counter
- Includes power cord, manual and UC-03 60-pin header
- 1919211: 16 data switches
- 16-bit red LEDs
- Includes power cord, manual and jumper wires

* Web Code: LAJ

| Part No. | Description | Size (W" x D" x H") | Wt. (lbs.) | 1 | 5 |
|----------|---------------------|---------------------|------------|----------|----------|
| 136267 | Digital/analog lab | 12.8 x 9.8 x 3.7 | 8.5 | \$499.95 | \$449.95 |
| 1919211 | Digital/analog lab* | 13.0 x 10.5 x 3.5 | 9.1 | 524.95 | 474.95 |

* Manufacturer: Sun Equipment Corp.



USB AVR Programmer

This programmer emulates an AVRISP v2 on a virtual serial port, making it compatible with standard AVR programming software.

- In-system programmer (ISP)
- Extremely compact
- Compatible with Windows® XP, Windows® Vista, Windows® 7 and Linux

Includes: 6-pin ISP programming cable and USB-A to mini-B cable

| Part No. | Description | Size (L" x W") | 1 | 5 |
|----------|--------------------|----------------|---------|---------|
| 2136420 | USB AVR programmer | 1.35 x 0.6 | \$19.95 | \$18.95 |

JAMECO ValuePro AC/DC Power Supply

Ideal for Breadboards above

With built-in short circuit protection.

- Input power: 120/220VAC @ 50-60Hz (switchable)
- Indicator lamps and power fuses
- One-year warranty
- Just plug in and start to use
- Compact & lightweight
- For both digital and analog circuits
- Compatible with test leads P/N 77842, pg 118



International 120/220VAC Switchable

Output Specifications:
+5VDC @ 1A; -5V @ 300mA fixed;
0 to +15VDC @ 500mA variable;
0 to -15VDC @ 300mA variable;
12-6-0-6-12 tapped VAC, 300mA fixed

| Part No. | Description | Wt. (lbs.) | Color | Size (W" x D" x H") | 1 | 5 |
|----------|--------------|------------|-------|---------------------|----------|----------|
| 77682 | Power supply | 5.5 | Beige | 7.4 x 5.5 x 2.6 | \$169.95 | \$149.95 |

JAMECO ValuePro



Metal and Plastic Enclosures

The prototype builder boards on pg 134 are designed to fit into our ABS plastic and aluminum enclosures, metal cabinets and heavy-duty instrument cases. The pre-cut boards have 2 or 4 mounting holes compatible with the PC board mounting hardware (P/N 106551, pg 134) and adhesive standoff (P/N 2191592).

Board description: Laminated glass epoxy 1/16" thick fire retardant per FR-4 specs. Copper-clad and solder mask one side. Drilled holes: .035" diameter on .080" square pad. Pads spaced on .10" x .10" grid.

See page 39 for Knobs and page 77 for Hardware

★ Web Code: UAL



*All boards sold separately, see pg 134; multiple boards shown

ABS Plastic Enclosures

Lid for precision fit (adds 0.4" height). Complete with four screws and lid. All sizes below are interior dimensions.

| Part No. | Cross Ref. No. | Size (L x W x H) | 1 | 10 | 50 | 100 |
|----------|----------------|--------------------|--------|--------|--------|--------|
| 18922 | H2855 | 3.1" x 2.0" x 0.9" | \$3.49 | \$3.19 | \$2.89 | \$2.49 |
| 18914 | H2853 | 4.9" x 2.5" x 1.5" | 3.95 | 3.59 | 3.19 | 2.75 |
| 18893 | H2851 | 6.0" x 3.5" x 1.9" | 4.95 | 4.49 | 3.95 | 3.49 |
| 18906 | H2852 | 7.5" x 4.3" x 2.3" | 6.49 | 5.85 | 5.25 | 4.69 |

ABS Enclosures with Clear Top

Includes screws for mounting boards, rubber gasket for a tight seal on your equipment and drilled holes for mounting.

| Part No. | Cross Ref. No. | Size (L x W x H) | 1 | 10 | 50 | 100 |
|----------|----------------|--------------------|--------|--------|--------|--------|
| 141832 | 203C1 | 4.9" x 3.4" x 2.4" | \$8.95 | \$7.95 | \$7.19 | \$6.49 |
| 141841 | 203D1 | 6.5" x 3.4" x 2.2" | 9.95 | 8.95 | 8.49 | 7.95 |
| 141859 | 203F1 | 7.3" x 5.7" x 3.0" | 14.95 | 13.95 | 12.95 | 11.95 |

ABS Heavy-Duty Instrument Cases

P/N 18877 includes ventilation and speaker sound slots.

| Part No. | Cross Ref. No. | Size (L x W x H) | 1 | 10 | 50 | 100 |
|----------|----------------|---------------------|--------|--------|--------|--------|
| 18869 | H2505 | 7.9" x 6.3" x 2.5" | \$8.95 | \$7.95 | \$7.19 | \$6.49 |
| 18877 | H2507 | 10.0" x 7.5" x 3.1" | 9.95 | 8.95 | 7.95 | 7.29 |

ABS Plastic Lip Top Enclosure

PCB standoffs molded into the case with a lip top for a precision fit. Painted black with a satin texture finish and protection against dust and splashing water. Assembly screws and lid included.

| Part No. | Mfr. Part No. | Size (L x W x H) | Color | 1 | 10 | 50 |
|----------|---------------|--------------------|-------|--------|--------|--------|
| 2138206 | 1551GBK | 2.0" x 1.4" x 0.8" | Black | \$2.95 | \$2.69 | \$2.39 |

SERPAC

Specialty Enclosures



C Series — with Pinch-Fit for PCBs

- Simple 2-piece design
- 2-insert areas for customized I-plates

| Part No. | Mfr. Part No. | Color | Size (L" x W" x H") | 1 | 10 | 25 |
|----------|---------------|-------|---------------------|--------|--------|--------|
| 675331 | C-4-BK | Black | 2.13 x 1.38 x 0.58 | \$2.95 | \$2.25 | \$2.09 |

H Series — Four Piece Design

- Holds 4-AA batteries (contactors included)
- Assembly with 6 screws RoHS compliant
- Circuit board mounting bosses
- ABS plastic black

| Part No. | Mfr. Part No. | Color | Size (L" x W" x H") | 1 | 10 | 25 |
|----------|---------------|-------|---------------------|---------|--------|--------|
| 2227778 | H754AA | Black | 7.20 x 3.65 x 1.26 | \$10.95 | \$9.95 | \$8.95 |

S Series — Two-piece Standard Enclosures

- 2-piece design
- 2-insert areas for customized I-plates
- With screws

| Part No. | Mfr. Part No. | Color | Batt. Holder | Size (L" x W" x H") | 1 | 10 | 25 |
|----------|---------------|-------|--------------|---------------------|--------|--------|--------|
| 675462 | 111-BK | Black | None | 3.61 x 2.27 x 1.51 | \$3.59 | \$3.09 | \$2.75 |
| 2202108 | 341BLK* | Black | None | 4.38 x 3.25 x 1.51 | 3.59 | 3.09 | 2.75 |
| 675489 | 131-BK | Black | None | 4.38 x 3.25 x 1.51 | 5.49 | 4.95 | 4.49 |
| 675542 | 173-BK | Black | None | 6.88 x 4.88 x 2.51 | 8.95 | 7.95 | 7.19 |
| 675551 | 193-BK | Black | None | 9.50 x 6.34 x 2.51 | 11.95 | 10.49 | 9.49 |

*Drilled, ValuePro

Metal Enclosures

- Mounting screws and rubber feet included
- Glossy black textured steel top cover and ivory aluminum base

| Part No. | Cross Ref. No. | Size (L x W x H) | 1 | 10 | 50 |
|----------|----------------|--------------------|--------|--------|--------|
| 208901 | B2741A | 4.0" x 3.3" x 2.2" | \$6.95 | \$6.25 | \$5.59 |
| 208911 | CMC11922 | 5.9" x 5.3" x 3.0" | 8.95 | 8.25 | 7.49 |
| 209350 | B2746A | 6.3" x 7.8" x 2.5" | 9.95 | 8.95 | 7.95 |
| 208929 | B2744A | 7.3" x 6.3" x 2.8" | 10.95 | 9.95 | 8.95 |
| 209358 | SY0207 | 7.5" x 9.8" x 3.2" | 15.95 | 14.49 | 12.95 |

Die-Cast Aluminum Enclosures

Made from aluminum, an excellent heat sink, these cases are great for high temp circuits (up to 600°C). Includes screws.

| Part No. | Cross Ref. No. | Size (L x W x H) | 1 | 10 | 50 | 100 |
|----------|----------------|--------------------|--------|--------|--------|--------|
| 11957 | B5002 | 3.9" x 2.0" x 1.0" | \$6.95 | \$6.49 | \$5.95 | \$5.49 |
| 11965 | 03-125B | 4.7" x 2.6" x 1.4" | 9.95 | 9.49 | 8.95 | 8.49 |
| 2191867 | BOX3-1455N-BK | 6.3" x 4.6" x 2.1" | 22.95 | 20.95 | 18.95 | 17.95 |
| 11973 | 03-125C | 7.5" x 4.3" x 2.4" | 19.95 | 18.95 | 17.95 | 16.95 |

Aluminum Enclosures

The enclosure comes in two pieces that slide together.

| Part No. | Cross Ref. No. | Size (L x W x H) | 1 | 10 | 50 | 100 |
|----------|----------------|--------------------|--------|--------|--------|--------|
| 11870 | H2300 | 4.0" x 2.0" x 2.8" | \$6.95 | \$6.25 | \$5.59 | \$4.49 |
| 11886 | H2320 | 5.0" x 4.0" x 3.0" | 7.95 | 6.95 | 5.95 | 4.95 |
| 11894 | H2335 | 7.0" x 6.2" x 4.6" | 8.95 | 7.95 | 6.95 | 5.95 |

Rugged Diecast Aluminum Alloy Enclosures

Protects from dust and splashing water, while also providing EMI/RFI shielding. Designed to meet IP54 rating. Unpainted with a vibra finish. Assembly screws included.

| Part No. | Mfr. Part No. | Size (L x W x H) | Cover | 1 | 10 | 50 |
|----------|---------------|--------------------|---------|--------|--------|--------|
| 2138169 | 1550A | 3.5" x 1.4" x 1.2" | Lid top | \$6.95 | \$6.25 | \$5.65 |
| 2138290 | 1590B | 4.4" x 2.3" x 1.1" | Lip top | 7.95 | 7.19 | 6.59 |
| 2138302 | 1590BB | 4.7" x 3.7" x 1.2" | Lip top | 10.95 | 9.49 | 8.49 |



Black Plastic Mounting Enclosure w/ PCB Grooves



- Rear panels must be ordered separately
- Size: 5.65"W x 4.82"D x 2.83"H
- Material: noryl rosin

2228025 includes:

- Enclosure with PCB grooves (NGS7411)
- Front panel, plain (NGS7411P)
- Front panel frame (NGS74PF)
- Screw clamps NGS-NK 2 3/4" L (2)
- Self tapping screws (8)

| Part No. | Description | 1 | 10 |
|----------|---|--------|--------|
| 2228025 | Enclosure with PCB grooves and front panel | \$9.95 | \$8.95 |
| 2228050 | Rear panel, unpunched ABS, plain, black | 4.95 | 4.49 |
| 2228041 | Screw clamps for screw fitting enclosure (2) NGS-NK | 3.95 | 3.59 |

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www.ClubJameco.com

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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Order by Phone at 1-800-831-4242 or Online at www.Jameco.com

Prototyping PC Boards & Terminals

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |



General Purpose Prototyping Boards

Select the prototype board that fits your needs from our comprehensive product listing. Prototyping boards with punched holes are convenient, economical tools for assembling circuit components and trying cost-effective alternatives to custom designs.

- 0.062" board thickness
- 0.1" hole spacing
- 0.08" pad size
- PCB material epoxy glass
- Plated through pads are double-sided

See PCB enclosures on pg 133, and mounting hardware (recommended P/N 106551) below

★ Web Code: PBH



21435



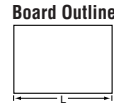
206579



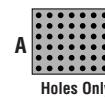
21478



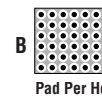
52943



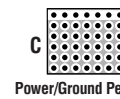
Board Outline



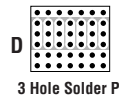
Holes Only



Pad Per Hole



Power/Ground Perimeter Bus with Pad Per Hole



3 Hole Solder Pad and Bus

| Part No. | Product No. | Size (W" x L") | Fits Enclosure(s) (see page 133) | Circuit Pattern | Hole Pads | # Holes x Dia.† | Power/Ground Buses | Connector I/O or Edge | # Mounting Holes x Dia. | Wt. (lbs.) | Pricing | | | |
|----------|----------------|----------------|----------------------------------|-----------------|----------------|-----------------|--------------------|-----------------------|-------------------------|------------|---------|--------|--------|--------|
| | | | | | | | | | | | 1 | 10 | 50 | 100 |
| 105102 | G/S(PCB-365)-R | 1.50 x 3.50 | 11957 | C | Single-sided | 365 x .038" | 4 | None | 2 x .140" | .02 | \$5.95 | \$5.39 | \$4.79 | \$4.29 |
| 2229335 | 245-0001 | 1.80 x 2.80 | — | C | Single-sided | 417 x .035" | 2 | None | 4 x .120" | .02 | 3.95 | 3.49 | 2.95 | 2.75 |
| 105100 | G/S(PCB228)-R | 1.60 x 2.70 | 18922 | B | Single-sided | 288 x .035" | None | None | 2 x .115" | .02 | 6.95 | 5.95 | 5.29 | 4.79 |
| 105129 | 2853PCB-R | 2.00 x 4.40 | 18914, 11965 | C | Single-sided | 669 x .038" | 4 | None | 4 x .140" | .03 | 6.95 | 6.25 | 5.59 | 4.95 |
| 2213421 | FIT0099† | 2.28 x 3.07 | — | B | Single-sided | 572 x .038" | None | None | 4 x .118" | .03 | 4.49 | 3.95 | 3.59 | 2.95 |
| 105111 | PCB-102-R | 2.40 x 3.40 | 11870 | C | Single-sided | 637 x .038" | 4 | None | 2 x .140" | .03 | 5.49 | 4.95 | 4.49 | 3.95 |
| 263207 | PCB-463-R | 2.40 x 4.10 | — | B | Plated through | 640 x .031" | None | None | 4 x .120" | .05 | 9.95 | 8.95 | 7.95 | 7.19 |
| 263215 | PCB-858-R | 2.50 x 4.25 | 18893 | D | Plated through | 640 x .042" | None | D-sub 25/USB/RJ45 | 4 x .120" | .05 | 9.95 | 8.95 | 7.95 | 7.19 |
| 105153 | 2851PCB-R | 3.10 x 5.50 | 18893 | C | Single-sided | 1450 x .035" | 7 | None | 4 x .140" | .07 | 6.59 | 6.25 | 5.59 | 4.95 |
| 263223 | PCB-69-R | 3.30 x 3.70 | — | B | Single-sided | 900 x .042" | None | None | 4 x .120" | .05 | 5.49 | 4.95 | 4.49 | 3.95 |
| 105137 | PCB-1266-R | 3.30 x 4.50 | 11886 | C | Single-sided | 1266 x .035" | 4 | None | 4 x .140" | .06 | 6.95 | 6.25 | 5.59 | 4.95 |
| 105162 | 2852PCB-R | 3.60 x 7.00 | 18906, 11973 | B | Single-sided | 2225 x .035" | 4 | None | 4 x .140" | .10 | 13.95 | 11.49 | 10.49 | 9.49 |
| 2131186 | ECS3-H2 | 3.90 x 6.30 | — | D | Single-sided | 784 x .041" | 2 | DIN41617/41612 | 4 x .120" | .12 | 8.95 | 7.95 | 7.19 | 6.59 |
| 206587 | PCB-586-R | 4.30 x 6.80 | 209350 | C | Single-sided | 2550 x .042" | 5 | None | 4 x .140" | .07 | 8.95 | 7.95 | 7.19 | 6.49 |
| 21435 | JE401-R | 4.50 x 6.50 | 18869 | B/D | Single-sided | 2360 x .042" | 2 | None | None | .12 | 16.95 | 15.49 | 13.95 | 12.49 |
| 206579 | PCB-578-R | 4.60 x 4.30 | 208911 | C | Single-sided | 1684 x .042" | 5 | None | 4 x .140" | .07 | 5.95 | 5.49 | 4.95 | 4.49 |
| 105180 | PCB-135-R | 5.00 x 6.50 | 18869 | C | Single-sided | 2829 x .035" | 7 | None | 8 x .120" | .13 | 10.95 | 9.95 | 8.95 | 7.95 |
| 21478 | JE407-R | 5.00 x 13.25 | — | B | Double-sided | 6063 x .038" | None | None | 8 x .120" | .28 | 34.95 | 29.95 | 26.95 | 23.95 |
| 206594 | PCB-594 | 5.50 x 8.00 | 209358 | C | Single-sided | 3906 x .042" | 5 | None | 4 x .140" | 1.0 | 12.49 | 10.95 | 9.95 | 8.95 |
| 105187 | 2507PCB | 6.10 x 8.80 | 18877 | C | Single-sided | 4771 x .035" | 7 | None | 8 x .140" | .21 | 14.95 | 13.49 | 11.95 | 10.95 |



Vector Prototyping Boards

| | | | | | | | | | | | | | | |
|--------|--|-------------|-------|---|--------------|----------------|------|------|------|-----|--------|--------|--------|--------|
| 43140 | 64P44XXXP | 4.50 x 6.50 | 18869 | A | Drilled only | 2860 x .042" | None | None | None | .09 | \$8.95 | \$7.95 | \$6.95 | \$6.25 |
| 52943 | 84P44WE | 4.50 x 8.50 | 18877 | A | Drilled only | 3740 x .042" | None | None | None | .15 | 12.95 | 11.95 | 10.95 | 9.95 |
| 37612 | 169P44XXXP# | 4.50 x 17.0 | — | A | Drilled only | 7524 x .042" | None | None | None | .25 | 16.95 | 14.95 | 13.49 | 12.49 |
| 37621 | 169P84WE | 8.50 x 17.0 | — | A | Drilled only | 14,448 x .042" | None | None | None | .53 | 29.95 | 26.95 | 24.95 | 22.49 |
| 106551 | 20 pieces; PC board mounting hardware (4 spacers, 8 screws and 8 washers) used with all above boards | | | | | | | | | | 2.95 | 2.59 | 2.29 | 1.95 |

Manufacturer: † DFRobot ‡ Velleman # PCB material: phenolic † All 0.042" Diameter hole boards use terminals P/Ns 34147, 34155 and 34163 (below)



.042" Diameter Copper Alloy Wire Wrap and Push-In Terminals

★ Web Code: XCE

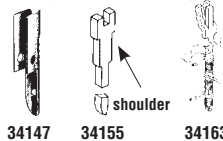
34147: Push-In Micro-Klip Terminals

34155: Miniwrap Wiring Terminals • Shoulder: .045"

- Two-prong with square tail for wire wrapping

34163: Klipwrap Wiring Terminals

- Three-prong with square tail for wire wrapping



| Part No. | Mfr. Part No. | Height Above .062" Board | Length Below .062" Board | Post Size | Overall Length | 100 pc. units | |
|----------|---------------|--------------------------|--------------------------|---------------|----------------|---------------|--------|
| | | | | | | 1 | 10 |
| 34147 | T421-1/C | .200 | .097 | .032" x .045" | .36" | \$8.95 | \$7.95 |
| 34155 | T44/C | .065 | .530 | .025"Sq. | .69" | 9.95 | 8.95 |
| 34163 | T49/C | .200 | .530 | .025"Sq. | .83" | 15.95 | 13.95 |



PCB Adhesive Standoff

★ Web Code: TBQ

Securely attaches your PCB to a flat surface. The rectangular base is offset to allow the base to be underneath the board when the mounting hole is close to PCB edge. The offset base provides large sticking surface while permitting the PCB to be mounted in tight spaces or close to walls.

- Low profile, offset base
- 3M adhesive tape backing
- 0.125" diameter PCB hole
- Integral clip locks PCBs in place
- Material: nylon 66 (UL)
- Flame class: 94V-2
- Size: 0.6"L x 0.8"W x 0.12"D



| Part No. | Product No. | Description | 1 | 10 | 50 |
|----------|-------------|-----------------------------------|--------|--------|--------|
| 2191592 | SA120X8 | 8-pack adhesive standoff for PCBs | \$2.95 | \$2.69 | \$2.39 |



Solderable PC Protoboards

★ Web Code: PBH

- High-quality FR4 glass epoxy PCBs for long life
- Anti-tarnish protective coating for easy soldering

| Part No. | Product No. | Size (L" x W" x D") | Points | Pricing | | |
|----------|-------------|---------------------|--------|---------|--------|--------|
| | | | | 1 | 10 | 50 |
| 2125042 | SB300 | 3.0 x 1.2 x 0.06 | 300 | \$4.95 | \$4.49 | \$3.95 |
| 2125051 | SB400 | 3.0 x 1.9 x 0.06 | 400 | 5.49 | 4.95 | 4.49 |
| 2191402 | SB404 | 3.75 x 1.85 x 0.06 | 540 | 5.49 | 4.95 | 4.49 |
| 2191411 | SB830 | 7.25 x 1.85 x 0.06 | 1258 | 6.49 | 5.85 | 5.25 |
| 2125034 | BR1 | 7.0 x 1.85 x 0.06 | 830 | 6.95 | 6.25 | 5.59 |
| 2127241 | PR3U† | 6.3 x 3.9 x 0.06 | 2356 | 10.49 | 9.49 | 8.49 |
| 2127267 | ST3U | 6.3 x 3.9 x 0.06 | 2356 | 10.49 | 9.49 | 8.49 |

† Excepts 96-pin DIN 41612 connection (P/N 859430)

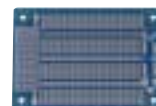


PT Series Prototyping Boards

★ Web Code: PBH

- Features power buses that connect to a power jack (recommended P/Ns 101178 and 101187, pg 98)

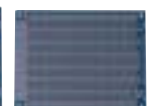
| Part No. | Cross Ref. | Size (L" x W") | Hole Pads | # Holes x Dia. | # Mntg Holes x Dia. | 1 | 10 | 50 |
|----------|------------|----------------|--------------|----------------|---------------------|--------|--------|--------|
| 645677 | PB-456 | 3.5 x 2.5 | Double-sided | 456 x .036" | 4.0 x .140" | \$9.95 | \$8.95 | \$7.95 |
| 262511 | PB-1135 | 5.0 x 3.7 | Double-sided | 1135 x .036" | 4.0 x .140" | 11.95 | 10.95 | 9.95 |
| 262537 | PB-1931 | 6.0 x 4.9 | Double-sided | 1931 x .036" | 4.0 x .140" | 10.95 | 9.95 | 8.95 |



645677



262511



262537

Prototype Boards, Circuit Boards & Accessories

Pre-Sensitized Circuit Boards & Chemicals

Circuit Boards

- Pre-coated circuit board
- 1/16" thick

★ Web Code: CTB

156751



| Part No. | Mfr. Part No. | Description | Size (W" x L") | 1 | 10 | 50 |
|----------|---------------|--------------|----------------|--------|--------|--------|
| 2097117 | 14-024 | Single sided | 2.0 x 4.0 | \$4.95 | \$4.49 | \$3.95 |
| 156751 | 14-034 | Single sided | 3.0 x 4.0 | 5.95 | 5.49 | 4.95 |
| 2161326 | 14-046 | Single sided | 4.0 x 6.0 | 7.95 | 7.19 | 6.59 |
| 2161334 | 14-066 | Single sided | 6.0 x 6.0 | 9.95 | 8.95 | 7.95 |
| 156742 | 14-234 | Double sided | 3.0 x 4.0 | 6.95 | 6.25 | 5.59 |
| 2161342 | 14-266 | Double sided | 6.0 x 6.0 | 12.95 | 11.49 | 10.49 |

Copy Sheets and Chemicals

| | | | | | |
|---------|---------|---|--------|--------|--------|
| 2097070 | 12-500 | Clear copy sheets (8.5" x 11.5") 5 pk. | \$5.95 | \$5.49 | \$4.95 |
| 70201 | ER3* | Dry concentrated etchant (makes 1 pint) | 7.95 | 6.25 | 5.59 |
| 156734 | 12-404* | 4 oz. positive developer | 24.95 | 22.95 | 19.95 |
| 2097088 | 12-800 | Tin plating copper kit† | 16.95 | 15.95 | 14.95 |

* Shipped via ground – available in continental U.S. only

† Includes ER-18 tinnit solution, 8"x6"x2" pan, 16 oz. bottle

Prototype Boards

★ Web Code: PBH

Export Design Phenolic Prototype Board

Accommodates all types of ICs, transistor packages and passive parts. Lands and bus bars are tin plated. 0.1" centers.

| Part No. | Mfr. Part No. | Size (W" x L" x Thick") | 1 | 10 | 50 |
|----------|---------------|-------------------------|--------|--------|--------|
| 616631 | 22-504 | 3 1/8 x 5 1/16 x 1/16 | \$6.95 | \$6.25 | \$5.59 |

Experimenter's Phenolic Prototype Boards

616649: Copper plated with 94 five-point terminals & two 40-point bus strips, 0.1 spacing



| Part No. | Mfr. Part No. | Size (W" x L" x Thick") | 1 | 10 | 50 |
|----------|---------------|-------------------------|---------|---------|---------|
| 616649 | 22-508 | 2.0 x 6.0 x 1/16 | \$12.95 | \$11.95 | \$10.95 |
| 616673 | 22-512 | 3.38 x 6.75 x 1/16 | 6.95 | 6.25 | 5.59 |

Perforated Bare Phenolic Prototype Boards

Unexcelled for prototypes, breadboards, hobby or science projects. Bare phenolic board with no copper clad.

- 0.100" spacing
- 1/16" thick

| Part No. | Mfr. Part No. | Size (W" x L") | Hole Dia. | 1 | 10 | 25 |
|----------|---------------|----------------|-----------|--------|--------|--------|
| 616690 | 22-516 | 4.50 x 6.0 | .042 | \$5.95 | \$5.49 | \$4.95 |

Through-Hole Prototyping Boards

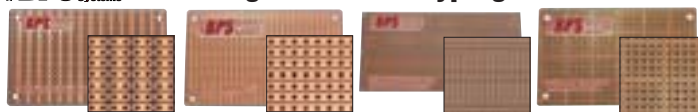


Fig. 1 Fig. 2 Fig. 3 Fig. 4

- High-quality FR4 glass-epoxy circuit board
- 0.037" drilled holes on 0.1" (2.54mm) centers
- 1 oz./ft² copper with anti-tarnish coating for easy soldering

| Part No. | Mfr. Part No. | Description | Fig. | Size (W" x L") | 1 | 10 |
|----------|---------------|--------------|------|----------------|--------|--------|
| 2191461 | PR2H1 | Single-sided | 1 | 1.97 x 3.15 | \$3.95 | \$3.59 |
| 2191488 | ST1. | Single-sided | 2 | 1.97 x 3.15 | 3.95 | 3.59 |
| 2191470 | PR2H2 | Single-sided | 1 | 3.15 x 3.94 | 5.95 | 5.39 |
| 2191496 | ST2. | Single-sided | 2 | 3.15 x 3.94 | 5.95 | 5.25 |
| 2191429 | SB1660 | Single-sided | 3 | 3.65 x 7.25 | 11.95 | 10.95 |
| 2191445 | PAD1 | Double-sided | 4 | 1.97 x 3.15 | 4.95 | 4.49 |
| 2191453 | PAD2 | Double-sided | 4 | 3.15 x 3.94 | 6.95 | 6.25 |

PICKit™ 3 In-Circuit Debugger

The PICKit 3 uses in-circuit debugging logic incorporated into each chip with Flash memory to provide a low-cost hardware debugger and programmer.

★ Web Code: SUP

- Real-time execution
- MPLAB IDE compatible (free copy included)
- Built-in over-volt./short circuit monitor
- USB (Full speed 12 Mbits/s)
- Supports low voltage to 2.0 volts (2.0V to 6.0V range)

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|------------------------------|---------|---------|
| 2184632 | PG164130 | PICKit 3 programmer/debugger | \$74.95 | \$64.95 |

Prototyping Developer Kit

The Jameco prototyping developer kit includes everything you need to get started with prototyping your own PCB.

- 2 pre-coated circuit boards, 3" x 4" x 1/16" (P/N 156751, above left)
- 4 oz. positive developer concentrate (P/N 156734, above left)
- 32 oz. etching solution (P/N 616438, pg 130)



| Part No. | Description | 1 | 5 |
|----------|----------------------------|---------|---------|
| 2113244 | Prototyping developer kit* | \$49.95 | \$44.95 |

* Shipped via ground – available in continental U.S. only

Bare Copper Circuit Boards – Single Sided

1 oz. copper on base of either fiberglass or reinforced epoxy board.

| Part No. | Mfr. Part No. | Size (W" x L" x Thick") | 1 | 10 | 50 |
|----------|---------------|-------------------------|--------|--------|--------|
| 616471 | 22-250 | 3" x 5" x 1/16" | \$3.75 | \$3.39 | \$3.09 |
| 616489 | 22-260 | 4" x 6" x 1/16" | 4.95 | 4.49 | 3.95 |
| 616497 | 22-261 | 6" x 6" x 1/16" | 4.95 | 4.49 | 3.95 |
| 616500 | 22-263 | 6" x 9" x 1/16" | 5.95 | 5.49 | 4.95 |
| 616518 | 22-264 | 8" x 10" x 1/16" | 9.95 | 8.95 | 7.95 |
| 616534 | 22-268 | 11" x 14" x 1/16" | 14.95 | 13.95 | 12.95 |

★ Web Code: CTB



Copper-Plated Blank Circuit Boards

★ Web Code: CTB

Single & double-sided boards are copper plated.

- Copper thickness: 35µm
- Total copper weight: 1 oz per side
- 1.6mm (1/16") thick
- PCB material: phenolic

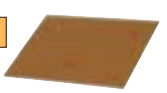
Fig. 1 Fig. 2 Fig. 3

| Part No. | Cross Ref. No. | Description | Fig. | Size (L" x W") | 1 | 10 | 50 |
|----------|----------------|--------------|------|----------------|--------|--------|--------|
| 169279 | PCBS3X6 | Single-sided | 3 | 2.9 x 5.9 | \$3.95 | \$3.59 | \$3.29 |
| 169288 | PCBS6X6 | Single-sided | 2 | 5.9 x 5.9 | 5.95 | 5.29 | 4.79 |
| 169296 | PCBS12X12 | Single-sided | 1 | 11.8 x 11.8 | 14.95 | 13.49 | 11.95 |
| 169309 | PCBD3X6 | Double-sided | 3 | 2.9 x 5.9 | 4.95 | 4.49 | 3.95 |
| 169317 | PCBD6X6 | Double-sided | 2 | 5.9 x 5.9 | 6.95 | 6.39 | 5.59 |
| 169325 | PCBD12X12 | Double-sided | 1 | 11.8 x 11.8 | 19.95 | 18.95 | 16.95 |

Positive Pre-Sensitized Circuit Boards

1 oz. copper (.0014") on an epoxy glass FR-4 board, UL94V-0 rated. The peel-off coating protects the board while handling or cutting prior to exposure. Use with developer mixed 1:9 with water.

★ Web Code: CTB



| Part No. | Mfr. Part No. | Description | Size | 1 | 10 | 50 |
|----------|---------------|--------------|---------|--------|--------|--------|
| 616251 | 21-334 | Single-sided | 4" x 6" | \$6.49 | \$5.95 | \$5.49 |
| 616260 | 21-336 | Single-sided | 6" x 6" | 7.95 | 7.19 | 6.59 |
| 616307 | 21-353 | Double-sided | 6" x 9" | 16.95 | 15.49 | 13.95 |

Surface Mount Proto Boards

Easy, cost-effective and versatile Snap-Apart™ solution from Bellin Dynamic Systems.

- Board thickness: 0.031"
- Size: 7.6"L x 5.0"W
- Compatible w/ .100" single/dual row male headers (see pg 54)



Small SMT

★ Web Code: HDS

| Part No. | Mfr. P/N | Board Description | 1 | 5 |
|----------|----------|---|---------|---------|
| 215491 | B502 | 160 SMT pattern, SOT/SOIC/TSOP/MSOP/DPAK & more ... | \$39.95 | \$36.95 |
| 227344 | B513 | 300 SMT pattern, SC90, SOT23-6, 323-6, TSOP, MSOP8, 10+ | 44.95 | 39.95 |

SOIC

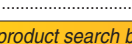
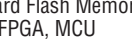
| | | | | |
|--------|------|---|---------|---------|
| 215520 | B505 | 60 SOIC SMT pattern, SOIC 8, 14, 16, 24, 32, 40 & more .. | \$44.95 | \$39.95 |
|--------|------|---|---------|---------|

TopMax II High Speed Universal Programmer



- USB interface
- 48-pin ZIF socket
- Input voltage: 5V, 3.3V, 2.7V, 1.8V
- No. of devices supported: 15,000+
- Supports: NAND Flash Memory, Standard Flash Memory, EPROM, EEPROM, Serial PROM, GAL, FPGA, MCU

| Part No. | Mfr. Part No. | 1 | Price |
|----------|---------------|----------|----------|
| 2110158 | TOPMAXII | \$794.95 | \$794.95 |



* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com



FireWire Adapter Card

- 4-port (2 Firewire and 2 USB 2.0)
- Firewire 800 and hi-speed USB combo/Firewire adapter
- PCI bus

★ Web Code: VBB

| Part No. | Mfr. Part No. | 1 | 10 |
|----------|---------------|--------|--------|
| 2209238 | NN-8IS212-S2 | \$9.95 | \$8.95 |



Computer Switchbox

- 2-port switchbox
- DB25 female (2 PCs to 1 printer)
- Size: 6.0"L x 5.8"W x 2.3"H
- Weight: 1.4 lbs.

★ Web Code: CAK

Computer Cables on page 137

| Part No. | Cross Ref. No. | 1 | 10 |
|----------|----------------|---------|---------|
| 20095 | 40D3-17602 | \$17.95 | \$15.95 |



19" Rack Mount Enclosures

- Ventilation holes all side
- Finish: Flat black
- Front and back panels are steel with aluminum, pre-punched face plates
- 0.12" thick black front panel
- Need to assemble
- Top, bottom and sides are durable 0.035" steel
- All enclosures have handles except P/N 132813

Includes: Mounting screws

| Part No. | RU | Dimensions (In.) | | | Wt. (lbs.) | Pricing | |
|----------|----|------------------|------|-------|---------------|---------|---------|
| | | H1 | H2 | D | | 1 | 5 |
| 149500* | 2U | 3.50 | 1.70 | 15.80 | 8.0 | \$29.95 | \$27.95 |
| 132813 | 1U | 1.73 | 1.25 | 9.75 | 6.2 | 49.95 | 44.95 |
| 132840 | 2U | 3.46 | 2.88 | 11.75 | 9.1 | 59.95 | 53.95 |
| 2203590† | 2U | 3.50 | 3.50 | 15.50 | 9.1 | 39.95 | 35.95 |
| 132848 | 3U | 5.22 | 4.75 | 11.75 | 10.6 | 64.95 | 59.95 |
| 132864 | 5U | 8.56 | 8.00 | 13.50 | 15.4 | 109.95 | 99.95 |

*2U fixed rack shelf (beige) †Assembled with 2 fans

★ Rack Mount Products — Enter Web Code GAT

Wireless Keyboard with Touchpad

Connect with PCs, tablets, Android TV, Google TV boxes, XBOX360 & PS3 game consoles, Raspberry Pi and more.

- 92 keys, audio and web buttons
- 2.4-2.48 GHz, ≤45 ft. range
- Slick, compact design
- Mini wireless QWERTY keyboard with touchpad

Includes: Li-ion battery, charging cable and USB receiver

NEW MARKED IN PINK

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 2240112 | DFR0330 | \$24.95 | \$22.49 |

LED BRIGHT STICK

Rechargeable 29-LED flashlight is perfect for shop use or roadside emergencies.

- 29 LED work light
- 3 LED flashlight
- Magnetized end and 360° hook for safe and convenient hands-free mounting
- Water and oil resistant

Includes: Bright stick, 12VDC wall power

| Part No. | Mfr. Part No. | Price |
|----------|---------------|--------|
| 2202175 | 2417 | \$9.95 |



6-Outlet Surge Protector

- Heavy-duty power cord (14AWG x 3)
- Size: 9.5"L x 1.7"W x 1.4"H
- 4' cord
- Clamping voltage: 400V
- Max. surge voltage: 6500V
- RESET/OFF switch with built-in 15A circuit breaker



| Part No. | Cross Ref. No. | Spike Current (Max.) | 1 | 10 | 25 |
|----------|----------------|----------------------|---------|---------|--------|
| 216485 | 51W1-10206 | 4500A, 150 joules | \$11.95 | \$10.95 | \$9.95 |

★ DIN Mounting Rails Accessories — Enter Web Code MBM

Audio Cables & Adapters on pages 48-49



USB-A Cable with Bracket

- Add additional USB ports to your PC
- Dual USB-A female ports
- Supports data transfer rates of 12Mbps
- 8"L cable



| Part No. | Description | 1 | 10 | 25 |
|----------|------------------------|--------|--------|--------|
| 144813 | (2) 1x5-pin connectors | \$4.95 | \$4.49 | \$3.95 |



Analog DIN Rail Timer

- DIN rail/ back panel mount (17.5mm)
- 10 time ranges
- 13 timing functions
- Output contact: SPDT (1C/O)
- Contact rating: 5A (NO), 3A @ 250VAC (NC)
- Faceplate (IP50), housing (IP40), terminals (IP20)



| Part No. | Size | 1 | 5 | 25 |
|----------|--------|---------|---------|---------|
| 2193862 | 17.5mm | \$31.95 | \$29.95 | \$27.95 |



8GB USB Flash Drive

USB flash drive in the shape of a Mean Well power supply! Perfect for storing, transporting and sharing your presentations, documents, photos, music, and more.

- Compatible with Windows® 2000, XP, Vista and 7; Linux; Mac® OS



| Part No. | Description | 1 | 10 |
|----------|----------------------|--------|--------|
| 2155356 | Mini USB flash drive | \$6.95 | \$5.95 |



Mini Pan & Tilt Kit

- For horizontal surface mount
- Aluminum multifunction bracket
- 15kg/cm @ 4.8V
- Rotation: 0-180°



| Part No. | Mfr. | Mfr. Part No. | 1 | 5 |
|----------|------|---------------|---------|---------|
| 2157870 | Dagu | RS002B | \$15.95 | \$13.95 |

6-Outlet Power Strips

- 10 ft. 14/3 AWG power cord
- 6 grounded outlets
- Combination circuit
- Breaker ON/OFF switch
- 125V/15A/1875W



2258460/2132200: 6 ft. cord

2258697: 10 ft. cord

| Part No. | Mfr. Part No. | 1 | 10 | 25 |
|----------|----------------|--------|--------|--------|
| 2258460 | PS08-12-WHITE* | \$6.95 | \$5.95 | \$5.49 |
| 2258697 | PS08-12-BEIGE | 7.95 | 6.95 | 5.95 |
| 2132200 | ALG242** | 2.95 | 2.59 | 2.39 |

*Protective socket covers **Wall mount



USB 2.0 4-Port Hub

Add multiple high performance USB 2.0 devices to your computer or laptop. Unique design allows for easy storage and use.

- Stylish compact size and light weight
- USB 2.0 up to 480 Mbps
- Plug-and-play, bus powered
- 1 upstream, 4 downstream ports



| Part No. | Cross Ref. No. | 1 | 5 |
|----------|----------------|--------|--------|
| 2184085 | HU2Z40 | \$9.95 | \$8.95 |



Waterproof USB Video Borescope

Allows for easy surveying of hard-to-reach places with 4 adjustable LEDs on the top on the camera.

- Flexible 16' cord
- 9.8mm camera
- Webcam and photo snap function
- Works with Windows® XP, 7, Vista and Mac iOS



| Part No. | Cross Ref. No. | 1 | 5 |
|----------|----------------|---------|---------|
| 2177707 | INSPECTOR-T1 | \$34.95 | \$31.95 |

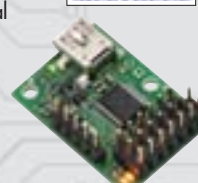
★ Computer Brackets — Enter Web Code RAX

★ Surge Protectors — Enter Web Code CAC

6-CHANNEL USB SERVO CONTROLLER

The six-channel serial servo controller features a native USB interface and internal scripting control. The channels can be configured as servo outputs for use with radio control or electronic speed controls, as analog inputs, or as digital outputs.

- Three control methods: USB, TTL (5V) serial and internal scripting
- Free configuration and control application for Windows® available
- Individual speed and acceleration control for each channel
- Uses USB 5-pin mini-B interface (cable not included)
- Size: 1.2" x 0.85"



| Part No. | Mfr. Part No. | Pulse Range | Pulse Rate | PWM Res. | 1 | 5 |
|----------|---------------|--------------|------------|----------|---------|---------|
| 2128180 | 1350 | 64 to 3280µs | 33-100Hz | 0.25µs | \$19.95 | \$18.95 |

Due to extraordinary copper market price fluctuations, cable and wire prices are subject to change.

Computer Cables, Adapters & Cameras

JAMECO ValuePro

Computer Cables and Adapters

NEW MARKED IN PINK

*Web Code: CCS



Extension Cables

• All lines connected straight through

Male to Female

| Part No. | Description | Lgth (ft.) | Color | 1 | 10 | 100 |
|----------|-------------|------------|-------|--------|--------|--------|
| 2075971 | DB9† | 6 | Black | \$1.49 | \$1.25 | \$.99 |
| 199639 | DB9* | 6 | Black | 5.95 | 5.35 | 4.79 |
| 25701 | DB9* | 6 | Beige | 5.95 | 5.35 | 4.79 |
| 148516 | DB9* | 10 | Beige | 6.95 | 6.25 | 5.49 |
| 181359 | DB15 | 6 | Gray | 6.95 | 6.25 | 5.59 |
| 148532 | HDDB15* | 10 | Beige | 4.95 | 4.49 | 3.95 |
| 175291 | DB25* | 3 | Black | 3.49 | 3.15 | 2.89 |
| 67257 | DB25* | 6 | Gray | 4.95 | 4.49 | 3.95 |
| 39511 | DB25* | 10 | Gray | 5.49 | 4.95 | 4.49 |
| 177279 | DB25* | 15 | Gray | 6.95 | 6.25 | 5.59 |
| 181295 | DB37 | 6 | Gray | 5.95 | 5.35 | 4.79 |

Male to Male

| | | | | | | |
|---------|---------|-----|-------|--------|--------|--------|
| 181666 | DB9 | 10 | Beige | \$6.95 | \$6.25 | \$5.49 |
| 181286 | DB15 | 6 | Gray | 5.95 | 5.49 | 4.95 |
| 2209211 | HDDB15 | 2.5 | Black | 1.95 | 1.75 | 1.49 |
| 2155188 | HDDB15* | 6 | Black | 2.49 | 2.25 | 1.95 |
| 148523 | HDDB15 | 10 | Beige | 6.95 | 6.49 | 5.95 |
| 174001 | DB25* | 3 | Black | 3.95 | 3.59 | 3.29 |
| 65788 | DB25* | 6 | Gray | 6.95 | 6.49 | 5.95 |

*with thumbscrews †with thumbscrews, filters & green connectors

Serial Cables w/ Thumbscrews

| | | | | | | |
|--------|------------|---|-------|--------|--------|--------|
| 132346 | DB9 F to F | 6 | Beige | \$4.95 | \$4.45 | \$3.95 |
|--------|------------|---|-------|--------|--------|--------|

AT F-M Adapter Serial Cables

| | | | | | | |
|-------|-----------------|---|-------|--------|--------|--------|
| 31722 | DB9 F to DB25 M | 6 | Beige | \$4.95 | \$4.49 | \$3.95 |
|-------|-----------------|---|-------|--------|--------|--------|

Serial Null Modem Cables

• Gray • Pin-outs in ()

| Part No. | Description | Length (ft.) | 1 | 10 | 100 |
|----------|--|--------------|--------|--------|--------|
| 181404 | DB9 F to F (1 & 6-4; 2-3; 3-2; 4-6 & 1; 5-5; 7-8; 8-7) | 6 | \$5.55 | \$4.95 | \$4.49 |
| 180698 | DB9 F to F (1 & 6-4; 2-3; 3-2; 4-6 & 1; 5-5; 7-8; 8-7) | 10 | 6.75 | 5.95 | 5.45 |

Disk Drive Cables

| | | | | | |
|-------|---------------|-----|--------|--------|--------|
| 32686 | 40-pin (IDE) | 1.5 | \$1.95 | \$1.49 | \$1.25 |
| 32715 | 50-pin (SCSI) | 1.5 | 3.25 | 2.95 | 2.65 |

Ribbon Cable Assemblies

| | | | | | |
|--------|----------------------|---|--------|--------|--------|
| 12408 | DB25 M to F (28 AWG) | 4 | \$6.95 | \$6.25 | \$5.59 |
| 208582 | DB9 M to F (28 AWG) | 6 | 4.95 | 4.49 | 3.95 |

6-Pin Mini DIN PS/2 & AT Cables

| Part No. | Description | Lgth (ft.) | Color | 1 | 10 | 100 |
|----------|----------------|------------|-------|--------|--------|--------|
| 112628 | Male to male | 10 | Beige | \$5.95 | \$5.49 | \$4.95 |
| 28549 | Male to female | 6 | Beige | 4.75 | 4.25 | 3.95 |

IEEE 488

| | | | | | | |
|--------|-------------|-----|------|---------|---------|---------|
| 73155 | 24-pin GPIB | 3.3 | Gray | \$24.95 | \$22.49 | \$19.95 |
| 115782 | 24-pin GPIB | 6.6 | Gray | 29.95 | 26.95 | 23.95 |

*HDMI Cable — Enter Web Code DEM

DIN Male Printer & Keyboard Cables for Mac®

| Part No. | Description | Lgth (ft.) | Color | 1 | 10 | 100 |
|----------|------------------|------------|-------|--------|--------|--------|
| 1944994 | 8-pin (with EMI) | 3.3 | Black | \$1.49 | \$1.25 | \$.99 |
| 10604 | 8-pin | 6 | Gray | 3.95 | 3.49 | 3.05 |
| 130025 | 8-pin | 10 | Gray | 4.95 | 4.49 | 3.95 |

USB-A to DB9 Male Serial Cable/Adapters

| | | | | | | |
|--------|---------------|---|------|---------|---------|---------|
| 387954 | w/ jackscrews | 2 | Gray | \$16.95 | \$15.95 | \$13.95 |
|--------|---------------|---|------|---------|---------|---------|

USB Cables 2.0 & 3.0

*Web Code: NAV

| | | | | | | |
|---------|----------------------|-----|-------|--------|--------|--------|
| 326474 | A M to M (2.0) | 3 | Beige | \$1.95 | \$1.75 | \$1.49 |
| 2150985 | A M to M (2.0) | 6 | Blue | .99 | .89 | .75 |
| 222033 | A M to M (2.0) | 6 | Black | 2.95 | 2.59 | 1.95 |
| 222050 | A M to M (2.0) | 15 | Black | 2.49 | 2.25 | 1.95 |
| 2244164 | A M to F (2.0) | 0.7 | Black | 2.95 | 2.65 | 2.39 |
| 326482 | A M to F (2.0) | 3 | Beige | 1.75 | 1.59 | 1.39 |
| 229771 | A M to F (2.0) | 6 | Beige | 2.95 | 2.65 | 2.39 |
| 222068 | A M to F (2.0) | 6 | Black | 2.95 | 2.65 | 2.39 |
| 222076 | A M to F (2.0) | 10 | Black | 3.49 | 2.95 | 2.49 |
| 222084 | A M to F (2.0) | 15 | Black | 3.75 | 3.25 | 2.95 |
| 229711 | A M to B M (2.0) | 3 | Beige | 1.95 | 1.75 | 1.59 |
| 222608 | A M to B M (2.0) | 3 | Black | 1.95 | 1.75 | 1.59 |
| 229730 | A M to B M (2.0) | 6 | Beige | 2.95 | 2.49 | 1.95 |
| 2227874 | A M to B M (2.0) | 6 | White | 2.25 | 1.95 | 1.75 |
| 222010 | A M to B M (2.0) | 6 | Black | 2.95 | 2.49 | 1.95 |
| 229594 | A M to B M (2.0) | 6 | Clear | 2.95 | 2.49 | 1.95 |
| 229738 | A M to B M (2.0) | 10 | Beige | 3.25 | 2.95 | 2.25 |
| 222018 | A M to B M (2.0) | 10 | Black | 3.25 | 2.95 | 2.25 |
| 222026 | A M to B M (2.0) | 15 | Black | 3.49 | 2.95 | 2.49 |
| 2258478 | A M to B M (3.0) | 3 | Black | 1.75 | 1.59 | 1.35 |
| 2230555 | A M to 5-pin mini B | 2.5 | Black | 2.49 | 2.25 | 1.95 |
| 2228877 | A M to 5-pin mini B | 3 | Black | 2.49 | 2.25 | 1.95 |
| 673694 | A M to 5-pin mini B | 6 | Black | 2.95 | 2.59 | 2.19 |
| 2144833 | A M* to 5-pin mini B | 2 | Black | 1.95 | 1.75 | 1.49 |
| 2230512 | A M to micro-B (2.0) | 6 | Black | 1.75 | 1.49 | 1.25 |
| 2135064 | A M to micro-B (2.0) | 3 | Black | 2.95 | 2.59 | 2.29 |
| 2196086 | A M to micro-B (2.0) | 3.2 | White | 2.95 | 2.59 | 2.29 |
| 2228658 | A M to micro-B (3.0) | 6 | White | 3.95 | 3.59 | 3.25 |
| 2227663 | A M to C M (2.0) | 3 | Black | 7.95 | 6.95 | 5.95 |
| 2227671 | A M to C M (2.0) | 6 | Black | 8.95 | 7.95 | 6.95 |

†RFI filter *Dual A = USB-A; B = USB-B; C = USB-C; M = male; F = female

Pixy Cam Vision Sensor — CMUcam5

- Track hundreds of objects simultaneously
- Color and shape recognition
- Arduino, Pi, BeagleBone compatible
- Use with pan/tilt assembly (sold separately, see below)

CHARMED LABS



| Part No. | Mfr. Part No. | Price |
|----------|--|---------|
| 2239381 | 1/4" 1280x800, 264k RAM, M12 lens | \$74.95 |
| 2239390 | Pan & tilt kit assembly for pixy, 2x servo | 39.95 |

*Ethernet & Bidirectional Converters — Web Code KEM

*Cameras — Enter Web Code MBB

Chargers and Accessories for Android and Apple Products

NEW MARKED IN PINK



| Part No. | Description | Price |
|----------|---|---------|
| 2151030 | iPhone4 AC charger with 3' USB-A to 30-pin cable, 5V @ 1A* | \$11.95 |
| 2151056 | iPhone4 USB-A to 30-pin cable, 3'* | 3.95 |
| 2196078 | iPhone4 30-pin to 8-pin lighting adapter* | 2.95 |
| 2158320 | Single port USB cigarette car adapter 5V @ 1A, black*# | 3.95 |
| 2228391 | Dual Port USB cigarette car adapter, 5V @ 2A/5VDC @ 1A, white*# | 5.95 |
| 2151048 | Single port USB AC charger, 5V @ 1A, white*# | 9.95 |
| 2227786 | Dual port USB AC charger, 5V @ 2A, black*# | 4.95 |
| 2259420 | iPhone 5/6/7 AC charger with 3' USB-A to 8-pin lighting cable* | 14.95 |
| 2135064 | USB cable, USB male to micro-B, 3'* | 2.95 |
| 2196060 | iPhone 5/6/7 adapter, USB micro-B 8-pin lighting* | 2.95 |
| 2154935 | Apple earbuds with remote and microphone with volume control*# | 5.95 |
| 2228519 | iPhone 5/6/7 USB MFI lighting cable, 3' white* | 7.95 |
| 2232315 | iPhone 5/6/7 USB MFI lighting cable, 6' white* | 9.95 |
| 2229693 | Viper earbuds with mic*# | 6.95 |
| 2228527 | Power bank, 4000mAh, dual output: 2A/1A @ 5V, 12' cable*# | 19.95 |

*Apple #Android

FireWire 400 Cables

• 24K gold-plated connector • Color: black



| Part No. | Description | Length (meter) | 1 | 10 | 100 |
|----------|----------------|----------------|--------|--------|--------|
| 2202191 | 4-pin to 4-pin | 3 | \$1.25 | \$1.09 | \$.99 |
| 2202204 | 6-pin to 4-pin | 3 | 1.25 | 1.09 | .99 |
| 2202239 | 6-pin to 6-pin | 2 | 1.25 | 1.09 | .99 |

TTL Serial JPEG Camera with NTSC Video

This camera module outputs NTSC video and can take snapshots of that video and transmit them over the TTL serial link. Take up to 640 x 480 resolution pictures and pre-compress them for quick and easy storage.

- Manually adjustable focus
- 30MP CMOS
- Progressive scan mode
- Motion detection

| Part No. | Mfr. Part No. | Size | 1 | 5 |
|----------|---------------|---------------|---------|---------|
| 2144340 | P7030 | 1.25" x 1.25" | \$44.95 | \$39.95 |

*For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

Order by Phone at 1-800-831-4242 or Online at www.Jameco.com



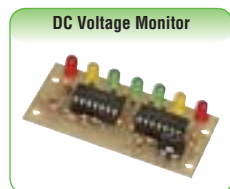
DIY Spider Robot

2190717



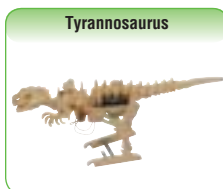
Audio Oscillator

2261167



DC Voltage Monitor

181833



Tyrannosaurus

242923



USB Arm Controller

2111960



Mini Robot

2150619



Running Micro Bug

200328



Crawling Micro Bug

200336



Line Tracking Robot

386708



Multi-Function Relay Switch

2130600



RFID Proximity Card

2123936



Titan Tank

2128374



Terrain Tracked Robot

2128331



Robotic Arm

2095023



Mr. General

2150580



J-Bot

2140285



Fun and Educational Electronic Kits

Rainbowkits are educational kits designed for hobbyists and industry professionals alike. They are fun, easy to build, and come with detailed instructions to build and operate. Each kit includes a brief theory of operation and testing procedures.

| Part No. | Mfr. Part No. | Description | 2261204 | Price |
|----------|---------------|---|---------|--------|
| 2261167 | EBAO-3 | Educational Audio Oscillator: Produce sine wave. Amp/frequency adjustable | | \$9.95 |
| 2261221 | LAS-1 | Laser Target Challenge: Up to 75', great for laser tag | | 14.95 |
| 2261204 | EBCD-7 | Educational Counter Display: 7-segment with MC14543 decoder | | 14.95 |
| 2261191 | STOP-1 | LED Stop Light Controller: Make three 4-way signal lights | | 17.95 |

DIY Discover Electronics Kits



Learn the basics of electronics and make your own projects. All breadboard components are reusable. The Discover Arduino kit includes Discover Electronics bundle and an Uno R3.

Requires: 4x AA batteries (recommend: P/N 198707)

| Part No. | Mfr. Part No. | Price |
|----------|------------------------------|---------|
| 2237343 | SunMod - Solar Hacking Kit | \$19.95 |
| 2119662 | Discover Electronics Kit, v3 | 54.95 |
| 2237335 | Discover Arduino Kit | 84.95 |



Hydraulic Arm Edge Kit

Robotic arm technology just got more interesting with the new "hydraulic" arm whose axes are powered by water. Say goodbye to batteries and motors. Winner of 2016 Top Toy of the Year.

- No soldering or batteries required
- Six axes to control
- Lifts 50 grams (1.75 oz.)
- Horizontal reach: 12.4", vertical: 16.35"
- Base rotation: 270°, wrist: 98°, elbow: 44°
- Gripper opens 1.9" or use suction gizmo
- Ages 10+ • 229-piece kit

| Part No. | Mfr. Part No. | 1 | 5 |
|----------|---------------|---------|---------|
| 2236922 | OWI-632 | \$39.95 | \$37.95 |



Electronic Kits



Robotic and Computer Control Kits

* Web Code: ERK

| Part No. | Mfr. P/N | Description | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing | |
|----------|-----------|---|---------------|------------|---------------------------|------------|---------|--------|
| | | | | | | | 1 | 5 |
| 2190717 | ROBO103 | DIY Spider Robot using your controller (Romeo recommended) | 70 | BEG | 6.0 x 4.0 x 3.0 | 0.6 | \$8.95 | \$7.95 |
| 181833 | VM-2 | DC Voltage Monitor kit with 7 LED display. Monitor 12V, 8V or 5V in 1/4V steps | 46 | BEG | 2.7 x 1.3 | 0.2 | 9.95 | 8.95 |
| 242923 | 21-601 | Mechanical Wooden Tyrannosaurus kit | 116 | BEG | 1.5 x 3 x 6.5 | 0.9 | 14.95 | 13.49 |
| 2111960 | 535-USB | USB Arm controller for P/N 2095023 | 1 | BEG | 5.5 x 1.8 x 7.5 | 0.3 | 39.95 | 35.95 |
| 2150619 | RS014-USB | 2-in-1 Mini Robots include IR compound eye, 4 mini servos and universal remote. Tools included | 22 | BEG | 3 x 3 x 5 | 1.0 | 59.95 | 54.95 |
| 200328 | MK127 | Light-Following Running Micro Bug kit | 26 | INT | 4.0 x 2.4 | 0.2 | 10.95 | 10.49 |
| 200336 | MK129 | Light-Seeking Crawling Micro Bug kit | 29 | INT | 4.0 x 2.4 | 0.2 | 14.95 | 13.49 |
| 386708 | 21-880 | Line Tracking Robot Mouse (solder required) | 130 | INT | 3 x 3 x 3 | 0.9 | 22.95 | 20.95 |
| 2130600 | K8015 | Multi-function Relay Switch with 14 different functions and pushbutton control | 37 | INT | 3.4 x 1.5 x 1.0 | 0.5 | 24.95 | 23.95 |
| 2123936 | MK-179 | RFID Proximity Card Reader kit, include 2 tags EM4100 compatible (more tags on pg 144) | 52 | INT | 2.6 x 2.4 x 0.8 | 0.5 | 29.95 | 26.95 |
| 2128374 | 21-531N | Titan Tank kit, IR remote control, 4-ch selection for battle, 4xAA & 4xAAA batteries required | 121 | INT | 6.5 x 6.5 x 3.6 | 1.5 | 36.95 | 33.49 |
| 2128331 | OWI-536 | 3-In-1 All Terrain Tracked Robot; transform to a forklift, rover or gripper; wired remote control | 120+ | INT | — | 2.2 | 42.95 | 39.95 |
| 2095023 | OWI-535 | Robotic Arm. 5 DoF, base rotates 270°. Lifts 100g. 12.6" reach | 87 | INT | 6.3 x 15 x 9 | 2.5 | 44.95 | 42.95 |
| 2150580 | RS002 | Mr. General mobile robot platform features compound IR eye, 2 servos for pan/tilt and 2 cont. rotation servos. MCU & batteries not included | 206 | INT | 7.5 x 4.8 x 4 | 1.5 | 59.95 | 54.95 |
| 2140285 | J-BOT | Build your very own customizable robot with ultrasonic sensors, 4WD platform, breadboard, MotorShield kit and much more | 22 | INT | 9.5 x 7 x 8 | 3.6 | 149.95 | 134.95 |
| 2157124 | J-Bot v2 | Build a customizable mobile robot with ultrasonic sensor, 4WD chassis, breadboard and Romeo microcontroller w/ built-in motor control. | 17 | INT | 9.5 x 7 x 8 | 3.8 | 159.95 | 144.95 |

See page 131 for Reinforced Jumper Wires.



Electronic Kits (Continued)



Robotic and Computer Control Kits (Continued)

★ Web Code: ERK

| Part No. | Mfr. P/N | Description | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing | |
|----------|----------|---|---------------|------------|---------------------------|------------|----------|----------|
| | | | | | | | 1 | 5 |
| 2157116 | 258 | Egg-Bot Deluxe is an open-source robotic arm that can draw on spherical shapes like eggs, ping-pong balls, golf balls and Christmas ornaments up to 4.25" diameter. No soldering/programming required. PC/Mac required to create designs. | 126 | INT | 11 x 7.5 x 6 | 2.8 | \$199.95 | \$189.95 |
| 386610 | 21-886 | Terrain Escape Robot kit with infrared emitting diode and receiver module (4 x AAA required) | 86 | EXP | 5 x 5 x 5 | 0.9 | 22.95 | 19.95 |
| 2190101 | RS032 | Playful Puppy Quadruped Robot w/ 10 servo motors. Arduino compatible. (7.4V @ 2.2Ah LiPo recommended P/N 2167787, see Web) | 85+ | EXP | 7 x 4.5 x 5 | 1.3 | 134.95 | 119.95 |

Audio Transmitters, Amplifier, Sound Generator and Detection Kits



★ Web Code: AAK

| | | | | | | | | |
|---------|----------|---|----|-----|---------------------|------|--------|--------|
| 2136956 | MK104 | Electronic Cricket kit. Activated by darkness; effect, tone and light sensitivity adjustable | 25 | BEG | 2.2 x 1.6 x 1.0 | 0.11 | \$7.95 | \$7.49 |
| 2211899 | K8066 | 3-watt mono amplifier, 4-8Ω, 32dB gain, 50-20kHz | 17 | BEG | 1.6 x 1.9 | 0.5 | 10.95 | 9.95 |
| 2131012 | MK120 | Infrared Light Barrier kit with 85dB audible alarm and visible LED alert | 46 | BEG | 2.2 x 1.6/3.9 x 2.0 | 0.18 | 10.95 | 10.49 |
| 2130984 | MK136 | Super Stereo Ear audio amplifier boosts sound up to 50 times louder | 35 | BEG | 2.4 x 2.1 x 1.7 | 0.15 | 11.95 | 10.95 |
| 2130731 | MK171 | Voice Changer kit. Add effects to your voice with robotic, vibrato, high-low effects and more. | 36 | BEG | 3.0 x 1.8 | 0.11 | 12.95 | 11.95 |
| 2130870 | MK113 | Siren Sound Generator. 4 different sounds with pitch adj. (9V required) | 17 | BEG | 2.4 x 1.6 | 0.1 | 13.95 | 12.49 |
| 2196588 | MK190 | 2x5 watt amplifier: 3.5mm stereo input jack, screw terminal output | 25 | BEG | 2.6 x 2.1 x 1.0 | 0.2 | 14.95 | 14.25 |
| 2123944 | MK-182 | Digital Echo Chamber kit. Echo effect, line-in & out, output 8Ω, 500mW (9V required) | 63 | BEG | 3.35 x 2.76 x 0.78 | 0.5 | 24.95 | 21.95 |
| 147571 | MK103 | Voice Activated kit. Requires 8-15VDC Power Supply or 9V battery, sound activates 4 flashing LEDs | 33 | INT | 2.5 x 1.6 x 1.4 | 0.1 | 6.95 | 6.25 |
| 117612 | K1803 | Univ. Mono Pre-Amp kit (req. 10-30VDC pwr supply) | 17 | INT | 1.2 x 1.8 | 0.3 | 10.95 | 9.95 |
| 662670 | EBST-11 | Audio Stereo Amplifier kit. 1 watt (9V required) | 32 | INT | 2.8 x 2.3 | 0.2 | 11.95 | 10.95 |
| 151204 | AA-1 | Super Snooper Big Ear Audio Amplifier kit (9V req.) | 17 | INT | 1.8 x 1.0 x 0.6 | 0.1 | 12.95 | 11.49 |
| 127255 | K4001 | 7-Watt Amplifier kit. Requires 15VDC @ 500mA power supply, music output power: 7 watts, 4Ω | 22 | INT | 2.2 x 1.4 | 0.3 | 12.95 | 11.49 |
| 211772 | MK118 | FM Radio kit, 88-108MHz (12VDC, 2.1mm req.) | 65 | INT | 4.8 x 3.3 | 0.3 | 24.95 | 23.49 |
| 151239 | FMST-100 | FM Stereo Transmitter Mini kit, 9V battery | 37 | INT | 2.7 x 2.0 | 0.2 | 29.95 | 27.95 |
| 129138 | K4003 | 30W Stereo Pwr Amp. (req. 1x 24VCT @ 2A pwr supplies) | 38 | INT | 2.8 x 2.0 | 0.7 | 29.95 | 28.49 |
| 2130491 | K4305 | 20-LED Stereo VU Meter. -20dB to +3dB, 10-15VDC/0.25A via solder pad | 45 | INT | 1.5 x 2.7 (x2) | 0.5 | 29.95 | 27.95 |
| 127562 | K4401 | Sound Generator kit with 10 unique sounds | 61 | INT | 2.8 x 2.8 | 0.4 | 39.95 | 35.95 |
| 2120815 | K8098 | Audio Analyzer, display EMS/peak power, mean/peak dB, audio spectrum | 73 | EXP | 5 x 2.5 LCD | 0.6 | 64.95 | 61.95 |

Test and Measurement Kits

★ Web Code: TMK

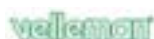
| Part No. | Mfr. P/N | Description | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing | |
|----------|------------|--|---------------|------------|---------------------------|------------|---------|--------|
| | | | | | | | 1 | 5 |
| 2136930 | MK105 | Signal Generator. 1KHz fixed freq. 0-100mVrms pot adj. 9V battery required | 30 | BEG | 2.2 x 1.6 | 0.1 | \$8.95 | \$7.95 |
| 662725 | EBLOG-300A | Logic Probe kit. 3V-16VDC, detect high, low, pulse signal | 14 | BEG | 4.0"L x 0.75"Dia. | 0.1 | 10.95 | 9.95 |
| 2175568 | EDU06 | Oscilloscope Tutor: Learn about AC, DC, sine and square waves, power supply ripple, full and half-wave rectifiers, oscillators and more. O-scope required. | 37 | BEG | 4.6 x 2.9 x 0.9 | 0.3 | 29.95 | 28.49 |
| 2181343 | M-2666K | Deluxe Digital Multimeter kit. 3½-digit display and AC/DC current up to 20A | 135 | BEG | 7.5 x 3.5 x 1.3 | 1.8 | 42.95 | 39.95 |
| 129091 | K7102 | Metal Detector kit. Sensitive within 8cm (req. 9V battery) | 22 | INT | 2.1 x 2.1 | 0.4 | 18.95 | 16.95 |
| 20685 | JE2206 | Function Generator kit. 1-100kHz in 4 ranges | 21 | INT | 4.1 x 1.5 | 0.1 | 29.95 | 26.95 |

| | | | | | |
|---|---|---|--|---|--|
|  Sound Generator 127562 |  Audio Analyzer 2120815 |  Signal Generator 2136930 |  Logic Probe 662725 |  Oscilloscope Tutor 2175568 |  Metal Detector 129091 |
|---|---|---|--|---|--|

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Electronic Kits (Continued)



Power Supply and Motor Kits

★ Web Code: PSM

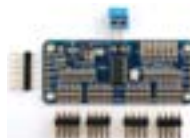
| Part No. | Mfr. P/N | Description | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing | |
|----------|----------|--|---------------|------------|---------------------------|------------|---------|--------|
| | | | | | | | 1 | 5 |
| 2115750 | 34020 | Breadboard Vreg kit. 6-18Vin, 5V @ .5A out, 2.1mm jack | 12 | BEG | 2.2 x 0.6 | 0.1 | \$7.95 | \$7.49 |
| 2184229 | 815 | 16-channel 12-bit PWM/servo driver with I ² C interface. PCA9685. 5V tolerant | 7 | BEG | 2.5 x 1 | 0.1 | 17.95 | 15.95 |
| 117621 | K1823 | 1.5A @ 1.5-35VDC Power Supply kit | 12 | INT | 2.1 x 2.1 | 0.3 | 13.95 | 12.49 |
| 2137166 | K8042 | Symmetric 1A Power Supply kit. Output of 1.2-18VDC depends on AC transformer (not incl.) see web | 46 | INT | 3.1 x 2 x 0.9 | 0.5 | 19.95 | 17.95 |
| 20626 | JE215 | Dual Adjust Regulated Power Supply kit, 5-15VDC | 48 | INT | 5.1 x 3.5 x 2.0 | 2.1 | 29.95 | 26.95 |
| 127829 | GMC-1102 | Motor Speed Control kit. Powers up to 5A @ 100VDC | 35 | INT | 3.6 x 2.3 x 1.2 | 0.3 | 39.95 | 37.95 |
| 120539 | K8004 | DC Pulse Width kit. Proportional DC to PWM | 40 | EXP | 3.3 x 1.9 x 1.8 | 0.5 | 26.95 | 23.95 |

Breadboard Voltage Regulator



2115750

PWM/Servo Driver



2184229

Symmetric Power Supply Kit



2137166

Dual Adjust Power Supply



20626

Distance and Light Kits

★ Web Code: DLK

| Part No. | Mfr. P/N | Description | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing | |
|----------|----------|---|---------------|------------|---------------------------|------------|---------|--------|
| | | | | | | | 1 | 5 |
| 2131207 | MK135 | Electronic Decision Maker kit. Rapidly flashes lights untill it slowly stops at one | 19 | BEG | 2.2 x 1.2 x 1.4 | 0.1 | \$7.95 | \$6.95 |
| 147635 | MK100 | Flashing Christmas Tree kit. 16 LEDs, 9V battery req. | 30 | BEG | 4.0 x 2.4 x 1.0 | 0.1 | 7.95 | 7.39 |
| 2136972 | MK109 | Electronic Dice simulates the roll of a die and generates a random number | 13 | BEG | 2.4 x 1.7 | 0.1 | 10.95 | 9.95 |
| 2130933 | MK147 | Dual white LED stroboscope creates a powerful flash effect. Speed adjustable 1-60 flashes/sec. 9V battery not included. | 21 | BEG | 2.2 x 1.3 x 1.6 | 0.1 | 8.95 | 7.95 |
| 2136964 | MK131 | 4-way Traffic Light kit. 12 LEDs with realistic operating and adjustable delay | 63 | BEG | 2.0 X 1.4 X 4.5 | 0.2 | 10.95 | 9.95 |
| 2196490 | MK141 | SMD Happy Face. Great surface mount beginner kit | 14 | BEG | 1.1" dia. | 0.1 | 10.95 | 9.95 |
| 2136999 | MK112 | Electronic Brain Game kit just like Simon Says. Visible/audible modes. 4 skill levels. 3xAA not included. | 28 | BEG | 2.0 x 2.6 | 0.2 | 10.95 | 9.95 |
| 236081 | MK145 | Halloween Pumpkin with 25 yellow LEDs | 71 | BEG | 2.48 x 2.24 | 0.2 | 10.95 | — |
| 2130802 | MK150 | Shaking Dice kit. Just give it a shake and the LEDs will automatically light a value | 23 | BEG | 3.0 x 1.8 | 0.2 | 14.95 | 13.49 |
| 2136534 | 091 | Larson Scanner kit. Create the scanning LED effect from Battlestar Galactica or Night Rider | 22 | BEG | 5.0 x 1.5 x 1.0 | 0.1 | 15.95 | 14.49 |
| 2137191 | MK119 | Game of Roulette. 37 LEDs, a spinning sound and "winner" tune for each color. Pushbutton operation | 66 | BEG | 3.6 X 1.3 | 0.2 | 24.95 | 22.95 |
| 147580 | MK102 | Flashing LED kit. 2 red 5mm LEDs, 9V battery req. | 23 | INT | 1.3 x 1.4 x 0.6 | 0.1 | 5.95 | 5.49 |
| 147555 | MK101 | Flashing LED Sweetheart kit. Flashes 25 T1 (3mm) red LEDs, 9V battery required | 46 | INT | 1.3 x 2.3 x 1.3 | 0.1 | 9.95 | 8.95 |
| 211781 | MK130 | 3D Flashing Christmas Tree kit. 16 LEDs | 36 | INT | 3.1 x 3.5 x 4.0 | 0.1 | 7.95 | 7.49 |
| 200310 | MK124 | Scrolling Message kit. 16 characters | 76 | INT | 3.5 x 2.6 x 1.8 | 0.2 | 21.95 | 19.95 |
| 147643 | K4304 | 10-LED Mono VU Meter kit | 36 | INT | 2.7 x 1.4 | 0.3 | 23.95 | 21.95 |
| 177092 | IR-10 | Infrared Transmitter & Receiver kit, 9V battery req. | 26 | INT | 1.0 x 0.8 | 0.1 | 21.95 | 20.95 |
| 2186822 | K8018B | 5x5x5 Blue LED Cube. Connet to your PC (USB) and create your own effects w/ free software | 170 | EXP | 4.3 X 4.3 X 5.9 | 0.6 | 99.95 | 94.95 |

Electronic Decision Maker



2131207

Flashing Christmas Tree



147635

Electronic Dice



2136972

LED Stroboscope



2130933

4-Way Traffic Light



2136964

SMD Happy Face



2196490

Brain Game



2136999

Halloween Pumpkin



236081

Shaking Dice



2130802

Larson Scanner



2136534

Game of Roulette



2137191

Flashing LED Sweetheart



147555

3D Flashing Christmas Tree



211781

5x5x5 Blue LED Cube



2186822



Junior Genius Blinky Lights Kit

Learn about voltage and current by using LEDs, resistors, capacitors and transistors. A great introduction to the world of electronics for both students and adults!

- Great kit for electronic beginners
- 10 core activities using standard breadboard parts

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| Part No. | Mfr. Part No. | Exp. Level | Price |
|----------|---------------|----------------|---------|
| 2237141 | JRG01-KIT | Beginner | \$24.90 |

Hook-Up Wire,
Paired Cable,
Speaker Wire
and more
see pages 42-43





Electronic Kits (Continued)



Alternative Energy – No Batteries Required

*Web Code: NRG

| Part No. | Mfr. P/N | Description | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing | |
|----------|------------|--|---------------|------------|---------------------------|------------|---------|--------|
| | | | | | | | 1 | 5 |
| 2112014 | OWI-MSK671 | Super Solar Racing Car for ages 10 and up. Assembly is a snap. 1.1VDC panel & motor | 11 | BEG | 2.1 x 1.0 x 0.6 | 0.2 | \$9.95 | \$9.49 |
| 2112006 | MSK670 | Frightened Grasshopper kit. Solar powered | 7 | BEG | 1.75 x 1.0 x 0.6 | 0.1 | 11.95 | 10.95 |
| 2128340 | OWI-750 | Salt Water Fuel Cell Car. Magnesium metal sheet (3 incl.), provides 5-7 hrs continuous play | 20 | BEG | 3.0 x 1.6 x 0.7 | 0.5 | 16.95 | 14.95 |
| 2218716 | OWI-MSK617 | T4 Transforming Solar Robot. Build 4 bots | 67 | BEG | 5.4 x 3.1 x 2.0 | 0.6 | 19.95 | 17.95 |
| 2097521 | MSK610 | 6-in-1 Educational Solar kit. Create a solar car, airboat, windmill & more. No tools required | 33 | BEG | 4.75 x 2.4 x 3.4 | 0.5 | 19.95 | 17.95 |
| 2112170 | FCJJ-16 | Solar Hydrogen Education; invent clean energy applications using fuel cells and renewable hydrogen | 14 | BEG | 6.5 x 5.0 x 0.3 (panel) | 1.4 | 85.99 | 79.95 |

Time and Clock Kits

*Web Code: TCK

| Part No. | Mfr. P/N | Description | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing | |
|----------|----------|--|---------------|------------|---------------------------|------------|---------|--------|
| | | | | | | | 1 | 5 |
| 2170839 | 264 | Real Time Clock Breakout – includes PCB, battery, header, crystal, caps, resistors & DS1307 | 8 | BEG | 0.95 x 1.2 x 0.2 | 0.02 | \$9.95 | \$9.49 |
| 2157079 | MTRTC001 | ChronoDot Real Time Clock module (DS3231SN) | 4 | BEG | 1.2"Dia. | 0.4 | 18.95 | 16.95 |
| 2187323 | MK188 | 1 second to 60 hour pulse-pause timer. Relay: 16A max. Use 12-24VDC via terminals | 30 | BEG | 3.2 x 1.8 x 0.9 | 0.2 | 26.95 | 24.95 |
| 2130520 | VM141 | Start-Stop Timer kit with a wide timing range, easy time setting, LED animation during operation and on-board start-stop buttons | 40 | BEG | 2.8 x 1.8 x 0.8 | 0.2 | 34.95 | 31.95 |
| 2207831 | ANGCLKV1 | Angular Clock uses analog panel meters to display time. Clear acrylic enclosure | 48 | BEG | 7.0 x 2.5 x 2.5 | 0.8 | 59.95 | 54.95 |
| 2136569 | 950+966 | Desk/mantle LED shadow clock with 12 red, 30 green and 30 blue LEDs to mark hours, minutes and seconds | 147 | INT | 8.8 x 2.3 x 4.5 | 1.1 | 84.95 | 79.95 |

Miscellaneous

*Web Code: ERK

| Part No. | Mfr. P/N | Description | No. of Pieces | Exp. Level | Dimensions (L" x W" x H") | Wt. (lbs.) | Pricing | |
|----------|-------------|--|---------------|------------|------------------------------------|------------|---------|--------|
| | | | | | | | 1 | 5 |
| 2161617 | SP-1A | Learn to Solder Flashing Siren kit. Same as P/N 2124218 (below), w/o 25W iron and wire cutters | 23 | BEG | 4.9 x 2.5 | 0.3 | \$10.95 | \$9.95 |
| 2124218 | MKEL4 | The Learn to Solder Flashing Siren kit teaches you the basics of soldering & includes 25W iron, wire cutters and solder. 9V battery not included | 25 | BEG | 4.9 x 2.5 | 0.8 | 18.95 | 17.95 |
| 2214483 | SM200K | Learn and practice soldering SMT with the Surface Mount Technology kit | 38 | BEG | 4.5 x 3.0 | 0.3 | 21.95 | 19.95 |
| 2124200 | FO-30K | This kit teaches the fundamentals of fiber optics. You can transmit your voice or a 1kHz signal through the 3 ft. fiber optic cable | 56 | BEG | Rx: 1.3 x 4 x 1 Tx: 1.3 x 4 x 1 | 0.4 | 24.95 | 22.49 |
| 2143865 | ROV5-1 | Rover 5 Tracked Chassis. Height adjustable by 1.5" and has max speed of 10 in/sec. 87:1 gears. | 5 | BEG | 9.5 x 9 x 3 | 2.2 | 49.95 | 44.95 |
| 2169504 | CJKIT-20906 | Electronics for "Prank Box" project (see Web) | 11 | INT | — | 1.9 | 29.95 | 26.95 |

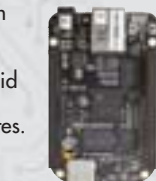
BEAGLEBONE BLACK REV. C

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- AM3358BZC100, 1 GHz processor
- 512MB DDR3L DRAM, 800 MHz
- 4GB eMMC Flash and microSD slot
- microHDMI, USB2.0, Ethernet ports
- 69 GPIO, 7 AIN, SPI, I2C, 4x timers, 4x serial

Includes: USB cable & pre-loaded Linux OS

| Part No. | Mfr. Part No. | Price |
|----------|---------------|---------|
| 2207970 | BB-BLK-000-C | \$69.95 |



2 & 4-LEGGED ALLBOT ROBOT

The ALLBOT is a modular robot system with Arduino-compatible robot shields. Build and enhance the robot, learn how to program, use the app and have fun! Each kit includes a servo shield, battery shield, plastic parts and screwdriver. Arduino Uno/Mega not included.

- Experience level: Intermediate

| Part No. | Mfr. Part No. | Description | Price |
|----------|---------------|----------------------|---------|
| 2237010 | VR204 | 2 legs with 4 servos | \$99.95 |
| 2237028 | VR408 | 4 legs with 8 servos | 149.95 |



Super Solar Racing Car



2112014

Solar Grasshopper



2112006

T4 Transforming Solar Robot



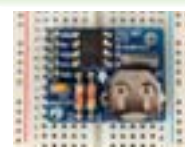
2218716

Solar Hydrogen Education



2112170

Real Time Clock Board



2170839

Real Time Clock



2157079

Pulse-Pause Timer



2187323

Start-Stop Timer



2130520

Angular Clock



2207831

Bulb Dial Clock



2136569

Solder Flashing Siren



2161617

Siren Kit with Iron & Cutter



2124218

SMT Technology Kit



2214483

Fiber Optics



2124200

Tracked Chassis



2143865

Prank Box



2169504

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Arduino Boards & Accessories

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Arduino Microcontrollers, Kits, Shields & Accessories

Arduino is an open-source physical computing platform based on a simple microcontroller board. Create interactive objects that can read inputs from a variety of switches, sensors and computers to control lights, motors and other physical outputs. The shields are expansion boards that sit atop an Arduino and broaden the functions, from motor control to prototyping.

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Microcontroller Boards

*Web Code: **ARD**

| Part No. | Manufacturer | Mfr. Part No. | Description | Dimension (L" x W" x H") | Pricing | |
|----------|---------------|---------------|---|-----------------------------|---------|---------|
| | | | | | 1 | 5 |
| 2151259 | KitPro | BB-Arduino | Build an Arduino compatible circuit, Atmega328P, assembly required, breadboard/PCB not included | — | \$12.95 | \$11.95 |
| 2151768 | Solarbotics | KARDW | Arduweeny microcontroller kit, Arduino compatible, Atmega328, 7+ pieces, assembly/soldering required | 1.6 x 0.54 | 12.95 | 12.49 |
| 2213325 | DFRobot | DFR0282 | Beetle MCU. Arduino-compatible, ATmega32u4, 16MHz, 10 digital, 5 analog | 0.8 x 0.9 | 11.95 | 10.95 |
| 2157765 | DFRobot | DFR0159 | DFRduino Pro Mini V1.2 (Arduino Pro Mini compatible) MCU board with 16MHz ATmega328, 14 digital I/O pins, 8 analog inputs, reset button, and holes for mounting pin headers | 1.3 x 0.7 | 17.95 | 16.95 |
| 2151486 | Arduino | A000066 | Uno Rev. 3, Atmega328 (DIP), 14 digital I/O, 6 analog I/O, USB, ICSP, 32K flash | 2.7 x 2.1 | 26.95 | 24.95 |
| 2163840 | Arduino | A000073 | Uno SMD Rev. 3, same as Rev.2 but has ATmega16U2 USB Serial converter & 1.0 pinout, USB-B | 2.7 x 2.1 | 26.95 | 24.95 |
| 2207700 | Arduino | A000053 | Arduino Micro: ATmega32U4 based, 6-20Vin, 20 I/O (7 PWM), 12 analog input, 32k flash, ICSP, µUSB connection | 1.9 x 0.7 | 24.95 | 23.49 |
| 2163778 | Arduino | A000057 | Leonardo with headers, 20 digital I/Os, 7 PWM channels, 16MHz crystal, 32k flash, 2.5k SRAM, microUSB | 2.7 x 2.1 | 26.95 | 24.95 |
| 2239331 | Intel | ATLASEdge.1 | Intel Arduino 101, 32-bit, Bluetooth LE, 6-axis gyro. ARC core, 14 digital I/O (4 PWM) | 2.7 x 2.1 | 34.95 | — |
| 2261087 | Red Bear Labs | BLEND | Arduino Uno with Bluetooth 4.0 "Blend"ed in. Works with iOS 7+, Android 4.3+, WP 8+ | 2.7 x 2.1 | 34.95 | 32.95 |
| 2170222 | Arduino | A000062 | Due, with 32-bit ARM core MCU, 54 digital I/Os, 12 analog inputs, 4 UARTs, 84MHz clock, 512kB flash | 4.3 x 2.1 | 49.95 | 46.95 |
| 2121148 | Arduino | A000005 | Nano v3.1, ATmega328, 14 digital I/O (6 PWM), 8 analog input, 0.6" wide breadboard-ready, USB mini-B | 0.7 x 1.7 | 29.95 | 26.95 |
| 2173706 | DFRobot | DFR0225 | Romeo V2 All-in-One controller, integrated 2-way DC 2A motor driver and Xbee socket, based on ATmega32U4 | 3.5 x 3.3 x 0.55 | 39.95 | 36.95 |
| 2152366 | Arduino | A000067 | Mega2560 Rev. 3, 54 digital I/O (14 PWM), 16 analog input, 256K flash. ATmega16U2 USB-Serial converter | 4.3 x 2.1 x 0.6 | 39.95 | 37.95 |
| 2193441 | Arduino | A000008 | Yún. Built in Ethernet & WiFi, µSD slot, 20 digital I/O. Atheros AR9331 runs Linux | 2.7 x 2.1 | 79.95 | 74.95 |
| 2213261 | DFRobot | DFR0100 | Beginner Kit for Arduino: DFRduino Uno R3, proto shield, USB cable, breadboard, sensors, power and passive components, 8 online starter lessons | — | 54.95 | 49.95 |
| 2121121 | KitPro | KIT-GSA | Get Started w/ Arduino kit, includes book, Arduino Uno, breadboard, LEDs, switches. No solder required | — | 74.95 | 69.95 |
| 2199543 | KitPro | KIT-AC-OSHG | Absolute Beginners Savings Arduino kit, includes Arduino Uno R3, breadboard, resistors, LEDs, switches, jumper wires and USB cable. Courses at opensourcehardwaregroup.com | 2.7 x 2.1 | 59.95 | 56.95 |
| 2217473 | Seeed Studios | KIT11021P | Grove Starter Kit includes shield w/ 16 Grove headers and 15 sensor/actuator modules & project guide | — | 39.95 | 35.95 |
| 2212007 | Adafruit | 170 | Experimentation Arduino kit, includes Arduino prototyping bundle, experimenter's guide, cables & many other passives | 2.7 x 2.1 | 99.95 | 89.95 |
| 2171188 | Arduino | K000007 | Arduino Starter kit includes Uno Rev. 3 & 38 other components w/ book of 15 projects to learn and build | — | 99.95 | 94.95 |
| 2229360 | Seed Studios | KIT83150P | Grove Android Open Accessory Development Kit – Seeeduno Dash Kit with 6 sensors & mega ADK | 6.0 x 6.0 | 79.95 | 69.95 |

Shields for Arduino (Arduino sold separately)

*Web Code: **AOS**

| Part No. | Manufacturer | Mfr. Part No. | Description | Dimension (L" x W" x H") | Pricing | |
|----------|--------------|---------------|--|-----------------------------|---------|--------|
| | | | | | 1 | 5 |
| 2237554 | ValuePro | UNO BASE | Acrylic base plate for Arduino Uno & 400 point breadboard. Base only with 4 rubber feet | 4.7 x 3.3 x 0.3 | \$2.95 | \$2.65 |
| 2152438 | Arduino | A000082 | Arduino Prototyping Shield PCB Rev. 3, compatible with new Arduino R3 pinout. PCB only. | 2.7 x 2.1 | 4.95 | 4.49 |
| 2159277 | DFRobot | DFR0019 | Prototyping shield with mini breadboard. SOIC-14 pad, ICSP header, GND/5V rails (assembled) | 2.7 x 2.1 | 12.95 | 11.49 |
| 2152446 | Arduino | A000083 | Arduino Proto Shield Rev. 3, 2 mini pushbuttons, 3 LEDs and a few resistors. Design your own shield! | 2.7 x 2.1 | 10.95 | 9.95 |
| 2152391 | Arduino | A000077 | Arduino Proto Shield Rev. 3 (assembled). Has reset button, ICSP connector and pass-through headers | 2.7 x 2.1 | 17.95 | 15.95 |
| 2152411 | Arduino | A000080 | MEGA Rev. 3 Protoshield printed circuit board, PCB only. For full protoshield kit, see P/N 2152420 below | 4.0 x 2.1 | 5.95 | 5.65 |
| 2261319 | Dr. Duino | DRDUINO | Arduino hardware debugger and learning shield. Pin breakout and test points for all I/O | 4.1 x 3.8 | 49.95 | 47.95 |
| 2144534 | DFRobot | DFR0060 | Screw Shield for Arduino. Convert female header pins to more secure screw terminals. | 2.7 x 1 (x2) | 7.95 | 7.49 |
| 2159314 | DFRobot | DFR0131 | Proto Screw Shield (assembled). Provides prototyping area & screw terminals for secure I/O connections. | 2.65 x 3.17 | 15.95 | 14.49 |
| 2184202 | Adafruit | 1141 | Data Logging Shield. Built in RTC & µSD slot, 3.3Vreg. Additional libraries required. | 2.7 x 2.1 | 18.95 | 17.95 |
| 2152260 | DFRobot | DFR0144 | Relay Shield controls up to 4 relays. Max. switching power: DC 90W or AC 360VA. Controllable with Arduino, Xbee or Bluetooth. | 3.25 x 2.2 | 19.95 | 17.95 |
| 2167744 | DFRobot | DFR0071 | SD Card Breakout Shield for standard SD and microSD cards. Switch-selectable, allows mass storage | 1.5 x 1.2 | 12.95 | 11.95 |
| 2144411 | DFRobot | DFR0009 | LCD Shield. 16x2, HD44780 compatible. White text, blue backlight, uses LCD4Bit library | 2.7 x 2.1 | 12.95 | 11.95 |
| 2229221 | Adafruit | MS-5V-KIT | Arduino Motor Shield Kit, 4H-Bridges, L293D chipset, 2 connections, 5V. Use Adafruit Library. | 2.7 x 2.1 | 17.95 | 15.95 |
| 2193651 | Adafruit | 1438 | Motor/Stepper/Servo Shield v2.0. Supports 4 DC or 2 stepper motors. 4 H-bridges; 1.2A per bridge | 2.7 x 2.1 x 0.4 | 19.95 | 18.95 |
| 2259024 | OSEPP | SCSHD-01 | Motor and servo shield with two L293D quad H-bridges | 2.7 x 2.1 | 19.95 | — |
| 2152403 | Arduino | A000079 | Arduino MotorShield Rev. 3. Dual full-bridge for inductive loads like relays, solenoids, DC/Stepping motors. 2A per channel, 4A max. | 2.7 x 2.1 | 29.95 | 26.95 |
| 2223902 | Pololu | 2503 | Dual motor driver shield. 2 channel, MC33926, 5V-28V, 3A cont./5A peak per motor, PWM up to 20kHz | 1.9 x 2.0 | 29.95 | 28.95 |
| 2223911 | Pololu | 2507 | High Power dual motor driver shield. 2 channel, VNH5019, 5V-28V, 12A cont./30A peak per motor | 2.56 x 2.0 | 49.95 | 47.95 |
| 2128534 | Robot Power | MEGAMOTO | High-power Motor Shield. 5-28V, 13A/30A peak, H-bridge or dual half-bridge | 2.7 x 2.1 x 0.5 | 44.95 | 42.95 |
| 2157829 | DFRobot | DR10009 | 2-Amp Motor Shield. Allows drive of two 7-12VDC motors with 2A maximum current each way | 2.3 x 2.2 | 17.95 | 16.49 |
| 2153781 | Parallax | 35000 | Board of Education Shield. Solderless breadboard prototyping & servo ports. Works with Uno & Mega | 4.0 x 3.0 | 39.95 | 34.95 |
| 2184211 | Adafruit | 1272 | Ultimate GPS Logger Shield w/ GPS module. -165dBm, 66-CH, RTC, µSD slot. Uno-compatible | 2.7 x 2.1 | 46.95 | 44.95 |
| 2167779 | DFRobot | TEL0051 | GPS/GPRS/GSM Module v2. 4-band, AT-commands, 6-9VDC@0.1A, embedded SMD antenna | 2.8 x 2.2 | 89.95 | 84.95 |

Arduino Shields, Sensors & Accessories

Arduino Kits, Shields & Accessories (Continued)

NEW
MARKED IN PINK



2206133



2206125



2260842



2144462



2237845



2159251



2134926



2150547



358336

Sensors, Accessories and Miscellaneous Kits

★ Web Code: AOA

| Part No. | Manufacturer | Mfr. Part No. | Description | Dimension (L" x W" x H") | Pricing | |
|----------|------------------|------------------|---|-----------------------------|---------|--------|
| | | | | | 1 | 5 |
| 2137756 | Arduino | A000040 | Stackable female header kit for shields. (2) 1 x 6 pos & (2) 1 x 8 pos, 15mm pin length, 0.1" spacing | — | \$1.95 | \$1.75 |
| 2261343 | KitPro | UNO-R3-STACK-HDR | Stackable female header kit for R3 shields. (2) 1x8 pos, (1) 1x6 pos, (1) 1x10 pos, 15mm pin len. | — | 1.95 | 1.75 |
| 2217705 | Sseed Studios | ACC113170 | Universal 4-pin 2mm pitch connecting cable for Grove sensors & modules. Five 20cm cables per pack | 7.8 x 0.32 | 3.49 | 3.25 |
| 2152180 | DFRobot | DFR0062 | Wii Chuck Adapter is Arduino compatible. Inserts into connector of a Nintendo Wii Nunchuck controller. 4-pin header allows access to 2-axis joystick, 2 buttons, and 3-axis ±2g accelerometer | 1.0 x 0.25 | 3.49 | 3.25 |
| 2159453 | DFRobot | DFR0028 | Gravity digital tilt switch sensor. 3-pin connection: output, power, ground. 3.3V to 5V | 1.2 x 0.8 x 0.35 | 3.95 | 3.59 |
| 2159381 | DFRobot | SEN0114 | Soil moisture sensor. Reads moisture present, includes analog sensor cable | 2.4 x 0.8 x 0.35 | 5.95 | 5.49 |
| 2206133 | ValuePro | U13-C0438 | Moisture sensor detects moisture level based on resistance. 3V/5V@35mA max., 4-pin (2mm) connector | 2.4 x 0.8 x 0.2 | 5.49 | 4.95 |
| 2159445 | DFRobot | DFR0034 | Analog sound sensor. Detects sound intensity, input voltage: 5VDC | 1.2 x 0.8 x 0.4 | 7.95 | 6.95 |
| 2206125 | ValuePro | U13-C0439 | Sound sensor detects sound strength. 4V-12V (5V typ.) 52-48dB sensitivity. Mic freq. 20Hz-16KHz | 0.96 x 0.8 x 0.4 | 5.49 | 4.95 |
| 2159373 | DFRobot | SEN0101 | Color sensor with RGB sensor chip and 4 white LEDs. Digital TTL interface. 2.7-5.5V, TCS3200 | 1.2 x 1.2 x 0.6 | 10.95 | 9.95 |
| 2157845 | DFRobot | DFR0077 | RS-232 to TTL converter. 4-pin connection: 5V, GND, logic in (SRX), logic out (STX), 300 to 115200 bauds | 1.7 x 1.4 x 0.5 | 9.95 | 8.95 |
| 2144454 | DFRobot | DFR0017 | Relay module. Arduino compatible. 150VAC/24VDC max switching voltage, 10A(NO) 5A(NC) | 1.4 x 0.9 x 0.7 | 8.95 | 8.49 |
| 2260842 | Sseed Studio | COM22639P | Grove relay module. Digital normally open switch. 250VAC/30VDC @ 5A. For Arduino, Raspberry Pi | 1.7 x 0.9 x 0.8 | 5.95 | 5.35 |
| 2236965 | Keyes | K853518 | Ambient light sensor with 8" cable. JST connector to three breadboard-ready pins, 5VDC | 1 x .75 | 2.95 | 2.75 |
| 2229343 | Pololu | QTR-1A | Sensor, reflectance, 5.0V @ 17mA, analog, .125" distance (2 pack). Supplied with straight & right angle headers | 0.5 x 0.3 | 3.95 | 3.59 |
| 2152315 | DFRobot | DFR0107 | IR remote and receiver kit. Includes 3-wire cable. Arduino compatible | 3.4 x 1.6 x 0.3 | 9.95 | 8.95 |
| 2150441 | Dagu | RS002A | Compound infrared sensor can be used as a range finder or movement tracker within 200mm, 4 pairs of IR phototransistors and (4) IR LEDs | 1.9 x 1.2 x 0.5 | 8.95 | 7.95 |
| 2144462 | DFRobot | SEN0019 | Adjustable IR sensor switch. 3-80cm range, 5V@100mA. 18" cable w/ 3-pin connector. | 1.76"L x 0.70"Dia. | 10.95 | 9.95 |
| 2206150 | ValuePro | U13-C0441 | PIR motion sensor, 3V/5V @ 150µA max. Range: 0.25-19.5 ft. Hold time: 1-25 sec. Detection angle: 120° | 1.6 x 0.8 x 0.4 | 8.95 | 7.95 |
| 2213413 | DFRobot | SEN0018 | Digital infrared sensor: 3V/5V @ 40µA, 110° detection angle, 23 ft. max distance, HIGH/LOW output level | 1.4 x 1.1 x 0.3 | 6.95 | 6.49 |
| 2230088 | ValuePro | PIR-GB | Compact PIR sensor, 9-12V with 4.5 leads, for hobbyist and CCTV. 3-pin (power/ground/signal) | 1.4 x 1.4 x 1.0 | 5.95 | 5.49 |
| 2237845 | Sseed Studio | 101020010 | Grove ultrasonic ranger distance sensor. 5VDC, 1.1" to 13" in 30° angle, Arduino Library ready | 0.6 x 2.0 x 1.0 | 14.95 | 13.95 |
| 2159251 | DFRobot | DFR0141 | Light disc with 12 SMD RGB LEDs. Individual color/brightness configurable, 5V operation, 12C Assembly req. | 2.5"Dia. | 21.95 | 19.95 |
| 2134926 | Arduino | A000009 | Project enclosure, ABS plastic, fits: Uno-Duemilanove-Diecimila-NG or MEGA, Ethernet shield and battery | 3.4 x 2.5 x 1.1 | 9.95 | 9.49 |
| 2134993 | ValuePro | PROTO KIT | 830-contact breadboard with 70-piece jumper wire kit for easy prototyping | 6.5 x 2.5 x 0.3 | 12.95 | 11.95 |
| 2152340 | Arduino | A000059 | USB to 5V serial adapter board. Includes pins for RX, TX, 5V, ground and reset | 1.7 x 1.0 x 0.4 | 14.95 | 13.95 |
| 2152243 | DFRobot | DFR0065 | FTDI basic breakout board for USB to serial communication. Uses DTR pin for hardware auto-reset when a new sketch is downloaded | 1.6 x 0.8 x 0.4 | 14.95 | 13.95 |
| 2159461 | DFRobot | DFR0143 | 3-axis analog accelerometer, with selectable sensitivity: ±1.5g/6g, 3 JST connectors, low pass filter | 1.5 x 0.9 x 0.3 | 17.95 | 15.95 |
| 2190864 | DFRobot | SEN0142 | 6 DOF PC sensor. MPU6050 combines 3-axis gyroscope and 3-axis accelerometer. Get pitch, roll, yaw, quaternion, euler. | 0.8 x 0.5 x 0.2 | 19.95 | 18.95 |
| 2159496 | DFRobot | DFR0126 | Digital audio analyzer w/ graphic equalizer display filter giving your Arduino ears. Can be read in 7 different frequency bands | 1.2 x 0.8 x 0.3 | 19.95 | 18.95 |
| 2117341 | Solarbotics | 50512 | Basic breakout board. 3.3/5V, FTDI mini USB-B to serial 6-pin, works w/ Arduino & clone 5V Arduino boards can use as a USB port, FT232RL chip | 1.4 x 0.7 x 0.3 | 22.95 | 19.95 |
| 2260931 | Sseed Studio | 101020015 | Grove temperature sensor. 5VDC. Range: -40° to +125°C ±1.5°C, voltage output for analog sense | 1.0 x 0.8 x 0.4 | 2.95 | 2.49 |
| 2213368 | DFRobot | DFR0067 | DHT11 temperature and humidity sensor. 3.3V/5V, 0°-50°C ±2°C, 20-90%RH ±5%RH, 3-pin digital output | 1.3 x 0.9 x 0.3 | 6.95 | 6.25 |
| 2217625 | Sseed Studios | 800116001 | Mini DS3231 RTC with super capacitor. Raspberry Pi ready. SIP-5 breakout | 0.6 x 0.6 x 0.5 | 6.49 | 5.95 |
| 2159390 | DFRobot | DFR0129 | Capacitive touch kit, with iPod-style wheel touch, keypad touch and a grid touch pad, includes cables | — | 19.95 | 18.95 |
| 2144665 | PowerSwitch Tail | 80135 | Power cord switch. Control outlet with microcontroller, 3-prong, 15A @ 125VAC, 5V control signal | 4.0 x 2.1 x 1.5 | 29.95 | 26.95 |
| 2144489 | ValuePro | 2601510235340Z | Conductive sewing thread. Size 92, 234/34 (4 ply), 50Ω/meter. Perfect for Lilypad or wearables | 400'+ reel | 41.95 | 39.95 |
| 2167761 | DFRobot | KIT0011 | 24-piece advanced sensor set, including sensors such as light, gas, sound, touch, accelerometer, and more | — | 84.95 | 79.95 |
| 2228869 | Sseed Studios | SLD01093P | 2.04" E-ink display shield for Arduino, 172 x 72 resolution. Supports 175 languages | 2.71"W x 2.1"H | 34.95 | 31.95 |
| 2152532 | Adafruit | 1947 | 2.8" Color TFT Touchscreen, Arduino compatible, 18-bit GPU, 320x240 pixels, 262k color, LED backlit | 2.73 x 1.98 x 0.15 | 47.95 | 44.95 |
| 2183859 | EarthLCD | ARLCD | 3.5" Color TFT Touchscreen with built-in Uno R3, 16-bit GPU, 320x240 pixels, 65k color, LED backlit | 3 x 3 x 0.9 | 109.95 | 99.95 |

Chassis/Mobile Platforms and Accessories

★ Web Code: MOB

| Part No. | Manufacturer | Mfr. Part No. | Description | Dimension (L" x W" x H") | Pricing | |
|----------|--------------|---------------|--|-----------------------------|---------|---------|
| | | | | | 1 | 5 |
| 2210001 | Dagu | DG007 | Magician acrylic chassis. (2) gear motors w/ 65mm wheels & rear caster. 6VDC, 90 rpm. 4xAA required | 6.85"L x 4.33"W | \$19.95 | \$17.95 |
| 2229204 | DFRobot* | ROB0005-VP | 2WD aluminum mobile platform with (2) 3-6VDC motors, 90 RPM/160 RPM (bulk bagged/no retail box) | 7.9 x 6.7 x 4.1 | 24.95 | 22.49 |
| 2150547 | Dagu | DG008 | 4WD plastic mobile platform with (4) 4.5V motors. No load speed is 90 ±10 rpm | 6.25"L x 5.0"W | 26.95 | 23.95 |
| 2229212 | DFRobot* | ROB0003-VP | 4WD aluminum mobile platform with (4) 3-6VDC motors, speed: ~35°/sec. (bulk bagged/no retail box) | 7.9 x 6.7 x 4.1 | 49.95 | 44.95 |
| 2124285 | DFRobot | ROB0003 | 4WD aluminum mobile platform with (4) 3-6VDC motors, speed: ~35°/sec. | 7.9 x 6.7 x 4.1 | 59.95 | 54.95 |
| 2259032 | OSEPP | ROB-01 | 101 Robotics Kit Basics. Alum. chassis, motors, infrared sensors. Learn how to navigate w/ included lessons. | — | 149.95 | 142.95 |
| 2209932 | Dagu | RS035 | T-Rex aluminum tank chassis can handle rough terrain. 45mm wide zinc tracks. 12V (typ.) 11A stall current | 14 x 10.4 x 5.1 | 224.95 | 209.95 |
| 358336 | Tamiya | 70144 | Ball caster set. (2) ball casters and height can be adjusted for various applications and projects. | 1.1 x 1.1 x 1/1.4 | 5.95 | 5.49 |
| 2259059 | OSEPP | LS-CAB4P-08 | 8" 4-pin I ² C connector female/female cables (4 pack). For OSEPP boards/sensors | 8.0"L x 0.4"W | 6.95 | 6.75 |

* Bulk bagged/no retail box

★ For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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Parallax Kits, Sensors, RFID Products & Wireless Interface Devices

PARALLAX Kits, Sensors and Modules

For Additional BASIC Stamp Modules, See Page 7

Parallax provides the electronics industry and hobbyists with products that are technically innovative, unique and economical. Parallax designs and manufactures microcontrollers and development software, SX chips and programmers/debuggers, Propeller chips and tools, project boards, robotics kits, educational tools and sensors. Not sure where to begin? Try a starter kit to familiarize yourself with the BASIC Stamp or Propeller microcontroller.

BASIC Stamp and Propeller Series Kits

★ Web Code: MBS

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|---|----------|----------|
| 387997 | 28832 | USB Boe-Bot full kit, completely reprogrammable and uses a BASIC Stamp module, expandable for different robotic projects | \$159.95 | \$149.95 |
| 2109165 | 28803 | Board of Education full kit, USB version, includes carrier board, BASIC Stamp 2 module, designed for those already familiar with programming Stamp modules | 99.95 | 89.95 |
| 2109202 | 90005 | BASIC Stamp Activity kit, learn electronics and programming, includes What's a Microcontroller? guide, components for over 40 hands-on activities, USB to serial adapter and homework board w/ BASIC Stamp 2 MCU | 89.95 | 79.95 |
| 2191998 | 32500 | ActivityBot Robot kit teaches programming the multicore Propeller in C with easy to follow tutorials. High speed servos with optical encoders, PING sensor, mini audio jack & XBee header. No soldering required. | 219.95 | 209.95 |



Sensors, Modules and Accessories

For more Sensors, see pg 73-74, 143

★ Web Code: PXS

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|--|---------|---------|
| 2111935 | 32213 | X-band motion detector. Detection from 8-30ft. 10.525 GHz, 4-pin SIP interface, 5VDC | \$39.95 | \$36.95 |
| 282870 | 28017 | 2-axis Accelerometer, measures ±3g on each axis, simple pulse output of g-force for each axis, 6-pin DIP module, analog output for temperature | 39.95 | 35.95 |
| 2109667 | 28526 | 3-axis accelerometer, digital output, SPI or I ² C, sensitive select ±2g/±4g/±8g | 34.95 | 29.95 |
| 282861 | 28015 | PING Ultrasonic Range/Distance Finder, 0.5" – 10 ft., 5VDC, 3-pin header | 29.95 | 28.49 |
| 2127081 | 28380 | ColorPAL color/light sensor, detects a full range of colors and outputs data as RGB components | 24.95 | 22.95 |
| 2230070 | CM-38R1 | 420 line 1/3" CCD black/white camera with 3.6mm lens | 8.95 | 7.95 |
| 2230061 | M13N1Y | 420 line 1/3" CCD black/white camera with 5mm pinhole lens | 8.95 | 7.95 |
| 2109245 | 28031 | USB to Serial (RS-232) Adapter, DB9 male socket, includes USB-A to mini-B cable, USB 1.1 and 2.0 compatible | 19.95 | 17.95 |
| 2109456 | 28030 | USB to serial (RS-232) adapter, DB9 male & USB mini-B port, use cable P/N 673694 | 17.95 | 16.95 |
| 2150256 | 28995 | Sharp IR distance sensor GP2Y0A21YK0F, 10-80cm, 5V operation, 3-pin JST male header | 13.95 | 12.49 |
| 211901 | 29132 | Sound impact sensor detects sound from up to 3m away, 3-pin SIP, 5V, digital output | 12.95 | 11.95 |
| 2205018 | 28032 | Wide angle PIR sensor, 180°, range up to 30 ft., 3-6VDC | 14.95 | 13.49 |
| 2082927 | 555-28027 | PIR Sensor kit, single bit high/low output, detection range up to 20 ft. | 13.95 | 12.95 |
| 2082855 | 27800 | Modular 2-axis joystick, dual 10k pot with common ground, 1.64" x 1.2" x 1.1" | 8.95 | 7.95 |
| 2109624 | 28109 | Boe-Bot/SumoBot wheel & tire set, 1 wheel & 2 rubber band tires | 5.95 | 5.39 |
| 2109763 | 605-00004 | Piezo film vibration sensor, use as flexible switch, freq. response device | 3.95 | 3.59 |



RFID, Wireless Interface Devices & Embedded Networking Solutions

Use these modules for a variety of hobbyist and commercial applications, including data storage, access control, user identification, robotics navigation, inventory tracking, payment systems, car immobilization or security systems.

RFID Read/Write Modules and Tags

PARALLAX 

 eInk

★ Web Code: RAD

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|--|--------|--------|
| 2109851 | 28161 | RFID passive tag, blue eye key fob, EM-4100 family | \$2.95 | \$2.75 |
| 2123514 | 28440 | RFID read/write module, serial, use card 2123522, supports passive tags | 54.95 | 49.95 |
| 2007169 | 32390 | RFID Reader kit, serial card reader, includes 4 different passive tags | 59.95 | 56.95 |
| 2007177 | 32395 | RFID Reader kit, USB card reader, includes 4 different passive tags | 59.95 | 56.95 |
| 2190872 | DFR0231 | NFC module for Arduino. PN532 controller, UART interface, supports ISO 1443A/NFC MIFARE® and ISO 14443B in R/W mode only | 19.95 | 17.95 |



Wireless Interface Devices

★ Web Code: WID

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|------------------|---|--------|--------|
| 2160753 | F301-SGP-D024-01 | 10-position single row female header w/ 2mm pin spacing, mates w/ Xbee chips | \$.99 | \$.89 |
| 2159331 | TEL0002 | USB Bluetooth v2.0 dongle, PC/MAC compatible, 33' range max. upto 3 Mbps | 4.95 | 4.69 |
| 2113375 | 32404 | XBee PCB antenna, 1mW, 2.4GHz, 300' line of sight, 802.15.4 network | 29.95 | 26.95 |
| 2123581 | 32409 | XBee, Zigbee series 2, 1.25mW, wire antenna, <400 ft. line of sight range | 34.95 | 31.95 |
| 2123590 | 32408 | XBee, Zigbee series 2 pro, 63mW, wire antenna, <2 mile line of sight range | 39.95 | 37.95 |
| 2189636 | APRIL | Electric Imp Breakout Brd, SD card socket for use with WiFi imp card (not included) | 11.95 | 10.95 |



★ USB Cables — Enter Web Code NAV

DIY Workshop Kits, Club Jameco Projects & Raspberry Pi



DIY Workshop Kits & Club Jameco Projects

★ Web Code: FMB



Jameco's Workshop

Scan on your smartphone with a code reader app.

Forrest M. Mims III Kits

See complete kit descriptions online, additional parts may be required

| Part No. | Description | 1 | 5 |
|----------|---|---------|---------|
| 2155487 | Atari Punk Console Kit: Sound synthesizer based on the 555 timer | \$26.95 | \$24.95 |
| 2155508 | Toy Organ Kit: Each button generates a different tone with tunable volume and pitch | 39.95 | 36.95 |
| 2155532 | The Vibration Sensor Kit: Detect vibrations with a piezo speaker and signals via an LED | 19.95 | 18.95 |

Circuit Skills Web Supported Kits & Projects

★ Web Code: ERK

| Part No. | Description | 1 | 5 |
|----------|---|---------|---------|
| 2113244 | Etch your own printed circuit board. Includes (2) 3"x4" pre-coated boards & etch solution* | \$49.95 | \$44.95 |
| 2117202 | Build a waveform generator and learn the basics for laying out an enclosure. Soldering required. | 69.95 | 62.95 |
| 2121092 | Build a basic guitar effect pedal while learning the basics for perboard prototyping. Soldering required. | 24.95 | 23.95 |
| 2126272 | Learn the basic functionality of an LED Color Organ ("sound-to-light") circuit. 3.5mm audio jack input. | 34.95 | 29.95 |

* Shipped via ground to continental U.S. only

Jameco Builds

★ Web Code: ERK

| Part No. | Description | Price |
|----------|---|--------|
| 2216606 | Simple dual jumbo LED flasher. Potentiometer adjustable flash rate. 14 components. Mountable. 9V battery required. | \$5.95 |
| 2217174 | Simple dual jumbo LED flasher breadboard project. Similar to 2216606, but no soldering involved. 9V battery required. | 5.95 |
| 2155516 | Build a compact USB charger w/ 5V output to charge small electronic devices. Soldering required. | 16.95 |
| 2223726 | Handheld UV light. Check for counterfeit currency, security features on checks or test item fluorescence. | 19.95 |
| 2155541 | LED Color Organ Kit: Similar to 2126272 but includes PCB with labels. Mono channel. | 39.95 |
| 2217078 | 8-digit LED Clock Kit. Open-source Arduino-compatible design. 12/24 hr, 12 hr AM/PM, date, stop watch modes included. | 79.95 |
| 2146329 | 4x4x4 LED Cube Kit: Advanced solder kit requires AVR programming for blue LED display visuals. | 79.95 |
| 2210651 | 8x8x8 Blue LED Cube w/ custom PCBs + 50 LEDs. Boards stack like shields on top of the Arduino Uno. Enclosure not included. | 149.95 |
| 2210642 | 8x8x8 Green LED Cube w/ custom PCBs + 50 LEDs. Boards stack like shields on top of the Arduino Uno. Enclosure not included. | 149.95 |
| 2210669 | 8x8x8 White LED Cube w/ custom PCBs + 50 LEDs. Boards stack like shields on top of the Arduino Uno. Enclosure not included. | 149.95 |
| 2260914 | Raspberry Pi Touchscreen Radio project. Web-based instructions | 149.95 |
| 2192296 | Construct a simple DC motor by making use of electromagnetic principles | 14.95 |
| 2192309 | Construct a simple DC motor. Classroom pack for 20 students. (For single kit, use P/N 2192296, above) | 99.95 |

Club Jameco Projects

Earn with Club Jameco www.ClubJameco.com/Earn

★ Web Code: CJK

| Part No. | Description | Price |
|----------|---|---------|
| 2160817 | Super Simple Low Power AM Radio Kit: Learn basic RF concepts with this breadboard project. | \$14.95 |
| 2192114 | 5V/9V Breadboard Switch Selectable Power Supply: LED indicates which voltage is live. | 19.95 |
| 2169580 | Easy Laser Alarm Kit: Senses light from a laser on a photocell to sound a buzzer when the beam is broken. | 19.95 |
| 2183824 | Solar Energy Converter: Convert solar to pulsed DC (Additional parts required to complete, see Web) | 19.95 |
| 2205991 | Portable LED Strobe: 30 bright white LEDs and the flash rate is adjustable. | 19.95 |
| 2169109 | Water Level Control: Sense high/low and trigger a relay (Pump not included) | 24.95 |
| 2259817 | groLEDs: computer controllable, adj. broad spectrum, high brightness 50-LED lamp | 29.95 |
| 2170530 | Programmable Light Chaser: An animation controller for 32 LEDs; program to create animation patterns. | 24.95 |
| 2219461 | Laminator Mod: PCB toner transfer from a laser printer. Compatible w/ PulsarproFX. | 24.95 |
| 2168325 | Metronome Kit: 7-seg display shows beats/min and allows you to switch between different time signatures. | 29.95 |
| 2170812 | DIY geiger counter uses a PIN photodiode as a substitute for a Geiger-Mueller tube. Detect alpha and beta particles. | 32.95 |
| 2182661 | Tripple Power Supply with Digital Monitor: Turn an unregulated 9V transformer into three selectable. regulated output voltages of 5V, 9V and 12V. | 34.95 |
| 2160681 | Transformer Kit: Learn how to wind a simple step-up or step-down transformer | 34.95 |
| 2190178 | PID Temp. Controller: Designed around the ATmega328P microcontroller utilizing the Arduino Duemilanove bootloader. | 39.95 |
| 2190080 | Vein Finder: Uses bright red LEDs to illuminate your veins! | 39.95 |
| 2184587 | Motion Triggered Room Light: Convert your AC extension cord into PIR activated (See Web for more details) | 44.95 |
| 2193846 | 3x3x3 Red LED Cube Kit: Arduino Uno based and assembled on top of a shield PCB. | 49.95 |
| 2209967 | Laser Activated Switch: Photocell with break-beam detection. Relay for 110VAC (Arduino micro not included) | 49.95 |
| 2247322 | Infinity Mirror v2.0: Arduino controlled or self-control red, green and blue colors | 59.95 |
| 2168309 | Fun Light Switch Box: Behavior of the lights vary depending on how the switches are set. | 69.95 |
| 2261010 | Digital Capacitance Meter: Arduino based, 0.001pF to 1000µF on a 16x2 LCD. Uno included (9V battery required) | 69.95 |
| 2218847 | 4x4x4 RGB LED Cube Kit: Arduino Nano drives the charlieplexed LED array. Libraries online. | 74.95 |
| 2168940 | 8x8x8 LED Cube: Includes 550 3mm blue LEDs. Driven by included Arduino Uno (Programming required) | 149.95 |
| 2169539 | 8x8x8 LED Cube: Includes 550 3mm white LEDs. Driven by included Arduino Uno (Programming required) | 149.95 |

Raspberry Pi and Accessories



2237790

2223890

2240219

2213472

| Part No. | Mfr. Part No. | Description | Price |
|----------|---------------|--|---------|
| 2237790 | 83-17300 | Raspberry Pi 3 model B, 1GB RAM @ 900MHz, quad core 1.2GHz, BCM2837, 40 GPIO header, Ethernet and WiFi | \$49.95 |
| 2223890 | 110060088 | Quick Starter kit. Enclosure, 8GB SD card w/ Raspbian OS, USB power supply, micro-USB cable, HDMI, Ethernet and USB/TTL serial cable, USB WiFi adapter | 49.95 |
| 2240219 | RASPI3-BUNDLE | Starter accessory bundle (Pi 3 model B, USB power supply, enclosure, heatsink and USB, HDMI, Ethernet and GPIO cables) | 79.95 |
| 2213472 | FIT0367 | Self-adhesive pure copper heatsink. Perfect for Raspberry Pi CPUs or other SMT components like stepper drivers. 0.48" x 0.43" x 0.18". 10 grams | 1.95 |

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- LT (low-temp) activate at 70°C
- HT (high-temp) activate at 90°C

Includes: Instructions and technical specs.

* Web Code: WAU



357931



357835



| Part No. | Mfr. P/N | Length (meter) | Wire Dia. (microns) | Linear Resistance (Ω/m) | Typical Current (mA) | Deform Weight* (grams) | Recovery Weight* (grams) | Typical Rate** | Pricing | |
|----------|----------|----------------|---------------------|-------------------------|----------------------|------------------------|--------------------------|----------------|---------|--------|
| | | | | | | | | | 1 | 5 |
| 357931 | 075LT | 1 | 75 | 200 | 100 | 815 | 80 | 40 | \$8.95 | \$7.95 |
| 357595 | 100HT | 1 | 100 | 150 | 180 | 28 | 150 | 43 | 9.95 | 8.95 |
| 357472 | 100LT | 5 | 100 | 150 | 180 | 28 | 150 | 33 | 26.95 | 24.95 |
| 141874 | 150LT | 1 | 150 | 50 | 400 | 62 | 330 | 20 | 9.95 | 8.95 |
| 160055 | 375LT | 1 | 375 | 8 | 2750 | 393 | 2000 | 4 | 12.95 | 11.49 |
| 357712 | 375HT | 1 | 375 | 8 | 2750 | 393 | 2000 | 5 | 10.95 | 9.95 |

* Multiply by 0.0098 to get force in Newtons ** Cycles per minute, in still air, at 20° Centigrade

Nitinol Wire, Springs and Muscle Wire Kits

* Web Code: WAU

| Part No. | Mfr. Part No. | Description | 1 | 5 |
|----------|---------------|---|---------|---------|
| 357798 | 3-401 | Nitinol SMA wire (1 meter L x 500µm Dia.) | \$16.95 | \$15.49 |
| 357835 | 3-642 | Nitinol tension springs (4pk.) 6.5mm OD x 26.5mm L x 750µm, black | 39.95 | 35.95 |
| 357659 | 3-141 | Project Book Sample kit (20cm of 50µm flexinol wire; 40cm of 100µm and 150µm LT wire) | 27.95 | 24.95 |
| 357641 | 3-136 | Muscle Wire Super Sampler kit (20cm each of 037, 050, 100, 150, 250µm) | 35.95 | 31.95 |

Hook-Up Wire, Bus Bar, Magnet Wire and more on pages 42-44

PowerFilm. Flexible Thin Film Solar Modules

* Web Code: AEK

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227985



| Part No. | Mfr. Part No. | Operating Voltage | Operating Current (mA) | Size (L x W x T) | | Pricing | | |
|----------|---------------|-------------------|------------------------|------------------|-----------------|---------|--------|--------|
| | | | | Inches | mm | 1 | 5 | 25 |
| 227985 | SP3-37 | 3.0 | 22 | 2.5 x 1.5 x .01 | 64 x 37 x 0.2 | \$3.95 | \$3.59 | \$3.29 |
| 227993 | TX3-25 | 3.0 | 25 | 4.5 x 1.0 x .01 | 114 x 25 x 0.2 | 3.95 | 3.59 | 3.29 |
| 171061 | MP3-37 | 3.0 | 50 | 4.5 x 1.5 x .01 | 114 x 37 x 0.2 | 5.95 | 5.39 | 4.79 |
| 228030 | SP4.2-37 | 4.2 | 22 | 3.3 x 1.5 x .01 | 84 x 37 x 0.2 | 5.95 | 5.39 | 4.79 |
| 228064 | MPT6-75 | 6.0 | 50 | 4.5 x 3.0 x .01 | 114 x 75 x 0.2 | 12.95 | 11.49 | 9.95 |
| 228072 | MPT6-150 | 6.0 | 100 | 4.5 x 5.9 x .01 | 114 x 150 x 0.2 | 19.95 | 17.95 | 15.95 |
| 228101 | MPT15-75 | 15.4 | 50 | 10 x 3.0 x .02 | 253 x 75 x 0.6 | 24.95 | 22.49 | 19.95 |
| 228110 | MPT15-150 | 15.4 | 100 | 10 x 5.9 x .02 | 253 x 150 x 0.6 | 39.95 | 35.95 | 31.95 |

Forrest M. Mims III Engineer's Guides

See Web for Bundles

* Web Code: FMB

| Part No. | Description | Pages | Price |
|----------|---|-------|---------|
| 2112743 | Forrest M. Mims III Engineer's Guide to Electronics Volume I: Timer, Op Amp, Optoelectronic Circuits & Projects | 124 | \$15.95 |
| 2112751 | Forrest M. Mims III Engineer's Guide to Electronics Volume II: Science & Communication Circuits & Projects | 140 | 15.95 |
| 2112760 | Forrest M. Mims III Engineer's Guide to Electronics Volume III: Electronic Sensor Circuit & Projects | 144 | 15.95 |
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2112743



2112778



2112786

3.3V/5V SOLAR POWERED SUPPLY

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- 12 pieces
- Experience level: beginner

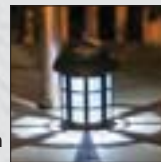


| Part No. | Description | Price |
|----------|------------------------------------|---------|
| 2216948 | 3.3V/5V solar powered supply | \$34.95 |

SOLAR LAMP PARTS BUNDLE

You pick the lamp cover, and we provide the electronics. Includes 1W high power LED, rechargeable batteries, solar cell, breadboard and more. No soldering required!

- 11 pieces
- Experience level: intermediate



JAMECO
KitPro

| Part No. | Description | Price |
|----------|-------------------------------|---------|
| 2259286 | Solar lamp parts bundle | \$44.95 |

DC SOLAR CHARGE CONTROLLER

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Small design with professional control IC provides low voltage, overload protection to solar panel and storage battery.

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- Output DC current: 4A max.
- Optimal input voltage (battery): 13.5V ±10%



| Part No. | Mfr. Part No. | Price |
|----------|----------------|---------|
| 2137271 | SOL4UCN2 | \$29.95 |

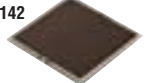
JAMECO
ValuePro

Solar Panels

* Web Code: AEK

- 1928142:** • 6" leads
• Power output: 0.25W max.
• Output: 3.2VDC @ 80mA
• Size: 2.36"L x 2.36"W x 0.1"Thick
- 2260041:** • 20" leads
• Power output: 0.9W max.
• Output: 6VDC @ 150mA
• Size: 3.5"L x 3.0"W

1928142



2260041



| Part No. | Description | 1 | 5 | 25 |
|----------|----------------------------|--------|--------|--------|
| 1928142 | Solder tabs on back | \$6.95 | \$6.25 | \$5.59 |
| 2260041 | With alligator clips | 9.95 | 8.95 | 7.95 |

Mini-Panel Solar Cells

* Web Code: AEK

Ready to Use! No Soldering

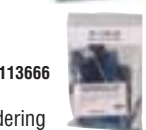
Mini-panels are secured in a plastic body with a prismatic cover to help capture all available light. 6" red/black wires attached.

2136913



- 2113666:** Solar Cell Grab Bag
• Contains fragile cells of various sizes w/ 0.5V output
• No leads attached and requires soldering

2113666



| Part No. | Mfr. P/N | VDC @ mA | Size (L" x W") | 1 | 5 |
|----------|-----------|---------------------------|------------------------------|--------|--------|
| 2136913 | SOL1 | 0.5 @ 400 | 2.8 x 1.8 .. | \$5.95 | \$5.49 |
| 2136921 | SOL3 | 1.0 @ 200 | 3.0 x 1.8 | 6.95 | 6.49 |
| 2210079 | FAD-1 | 1.2 @ 75 | 1.2 x 0.7 | 3.95 | 3.55 |
| 2260949 | †† | 1.2 @ 75 | 1.2 x 0.7 | 4.49 | 3.95 |
| 215319 | 4-3.0-100 | 3.0 @ 100 | 3.8 x 2.5 .. | 12.95 | 11.49 |
| 215327 | 4-6.0-50 | 6.0 @ 50 | 3.8 x 2.5 .. | 14.95 | 13.49 |
| 2221456 | PEP20* | 6.0 @ 150 | 4.0 x 3.0 .. | 14.95 | 13.49 |
| 2113666 | SC-GRAB | Solar cell grab bag | (min. 40pcs/bag, sizes vary) | 9.95 | 8.95 |

* Alligator clip leads †† Mfr. P/N: FAD-1-W/PINS, breadboard pin leads

50-PCS. PHOTOCELL GRAB BAG

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|----------|--------------------------------------|---------|
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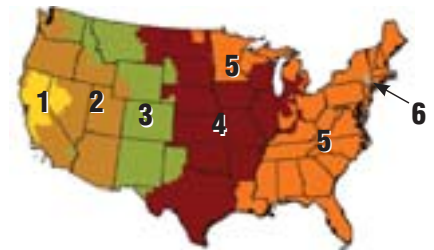
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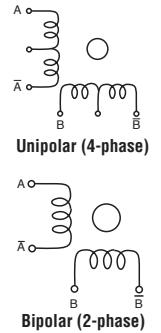
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| TABLE-TOP POWER SUPPLIES | 94-97,151,153,Back Cover |
|--------------------------------|--------------------------|

Featured Products

JAMECO ReliaPro Bipolar & Unipolar Stepper Motors

* Web Code: UBN



The world is constantly in motion. Keep all your projects moving with these motors.

Motors on pages 79-83

| Part No. | Drive System | Rated Voltage (VDC) | Step Angle (°/5%) | Phase Resis. (Ω) | Curr. (mA) | Phase Inductance (mH) | Detent Torque (g-cm) | Holding Torque (g-cm) | Mounting Hole Space (in.) | Mounting Holes (in.) | Shaft Dia. (in.) | Shaft Length (in.) | Motor Dia. (in.) | Motor Depth (in.) | Pricing | | |
|----------|--------------|---------------------|-------------------|------------------|------------|-----------------------|----------------------|-----------------------|---------------------------|----------------------|------------------|--------------------|------------------|-------------------|---------|--------|--------|
| | | | | | | | | | | | | | | | 1 | 5 | 25 |
| 237825 | Unipolar | 5 | 7.5 | 10 | 500 | 16 | 45 | 110 | 1.38 | 0.14 | 0.08 | 0.35 | 0.98 | 0.56 | \$9.95 | \$8.95 | \$7.95 |
| 2138812 | Unipolar | 7 | 7.5 | 20 | 350 | 11 | 125 | 450 | 1.59 | 0.12 | 0.078 | 0.47 | 1.37 | 0.85 | 8.95 | 7.95 | 6.95 |
| 155433 | Unipolar | 12 | 1.8 | 30 | 400 | 22 | 220 | 2000 | 1.73 | 0.10 | 0.20 | 0.90 | 1.70 | 1.50 | 20.95 | 18.95 | 16.95 |
| 238538 | Unipolar | 12 | 1.8 | 30 | 400 | 28 | 250 | 3400 | 1.22 | 0.10 | 0.20 | 0.95 | 1.67 | 1.89 | 21.95 | 19.95 | 17.95 |
| 155460 | Bipolar* | 12 | 1.8 | 32 | 400 | 32 | 122 | 2243 | 1.73 | 0.10 | 0.20 | 0.60 | 1.70 | 1.30 | 21.95 | 19.95 | 17.95 |
| 2158557 | Bipolar† | 24 | 7.5 | 50 | 550 | N/A | 177 | 193 | 1.25 | 0.27 | 0.08 | 0.22 | 1.25 | 0.53 | 1.95 | 1.75 | 1.49 |

*155460: Dual shaft † Manufacturer: Mitsumi

Regulated Switching Table-Top Power Supplies – 3-Wire AC Input

NEW MARKED IN PINK

Table-Top Power Supplies on pages 94-97



* 3-9V Web Code: TTF

* 12-14V Web Code: TTW

* 15-24V Web Code: TTR

* 27-54V Web Code: TTT



2078338

| Part No. | Mfr. | Mfr. Part No. | Output | | Output Connector | Size (H" x W" x D") | Pricing | |
|----------|---------------|------------------|-------------------|-----------|------------------|---------------------|---------|---------|
| | | | Voltage @ Current | Power (W) | | | 1 | 10 |
| 2227815 | Globtek | TR9CA2000LLP-Y-D | 5VDC @ 2.6A | 13 | 2.5mm x 5.5mm | 3.4 x 1.8 x 1.2 | \$12.95 | \$11.95 |
| 2224059 | Sparkle Power | AD025DGAA1-J25 | 5VDC @ 5A | 25 | 2.5mm x 5.5mm | 4.3 x 2.0 x 1.2 | 14.95 | 13.49 |
| 2144956 | ReliaPro | GQ65-060330-E1 | 6VDC @ 3.3A | 20 | 2.1mm x 5.5mm | 3.6 x 2.0 x 1.3 | 12.95 | 11.49 |
| 2227823 | Globtek | TR9CE1250LCP-Y | 12VDC @ 1.25A | 15 | 2.5mm x 5.5mm | 3.4 x 1.8 x 1.2 | 15.95 | 14.49 |
| 2197927 | ReliaPro | DZ036DL120300G | 12VDC @ 3A | 36 | 2.1mm x 5.5mm | 4.3 x 1.9 x 1.3 | 13.95 | 12.49 |
| 2230387 | Arndt | LSE0107A1240 | 12VDC @ 3.33A | 40 | 2.5mm x 5.5mm | 4.5 x 2.0 x 1.2 | 14.95 | 13.49 |
| 2208956 | ReliaPro | KPL-060F | 12VDC @ 5A | 60 | 2.1mm x 5.5mm | 4.5 x 2.0 x 1.2 | 15.95 | 14.49 |
| 2197919 | ReliaPro | DZ036DL240150G | 24VDC @ 1.5A | 36 | 2.1mm x 5.5mm | 4.3 x 1.9 x 1.3 | 11.95 | 10.95 |
| 2208948 | ReliaPro | KPL-060M | 24VDC @ 2.5A | 60 | 2.1mm x 5.5mm | 4.5 x 2.0 x 1.2 | 15.95 | 14.49 |
| 2078338 | Mean Well | GS90A24-P1M | 24VDC @ 3.75A | 90 | 2.5mm x 5.5mm | 5.9 x 2.3 x 1.2 | 28.95 | 24.95 |
| 2208892 | Mean Well | GS120A24-HQU | 24VDC @ 5A | 120 | 2.5mm x 5.5mm | 6.6 x 2.6 x 1.4 | 32.95 | 29.95 |
| 2228931 | FSP Group | FSP025-1AD207A | 48VDC @ 0.52A | 25 | 2.5mm x 5.5mm | 3.3 x 2.0 x 1.3 | 11.95 | 10.95 |
| 1952396 | Mean Well | GS60A48-P1JU | 48VDC @ 1.25A | 60 | 2.1mm x 5.5mm | 4.9 x 2.0 x 1.2 | 18.95 | 16.95 |

AC-to-DC "Slimline" Regulated Switching Wall Adapters

* Web Code: CBQ

Wall Adapters on pages 89-94 & 97

These wall adapters have a small unique AC plug orientation only taking up one slot on multiple outlet sockets. This allows you to utilize all the sockets. Save space charging your devices with the slimline of wall adapters.



| Part No. | Mfr. | Mfr. Part No. | Output | | Output Connector | Size (H" x W" x D") | Pricing | |
|----------|----------|--------------------|-------------------|-----------|-------------------|---------------------|---------|--------|
| | | | Voltage @ Current | Power (W) | | | 1 | 10 |
| 2211098 | Phihong | PLA05A-050-R | 5VDC @ 1A | 5 | 2.1mm x 5.5mm | 2.6 x 1.1 x 1.5 | \$6.95 | \$6.25 |
| 2188537 | CUI | EPAS-101W-05 | 5VDC @ 2A | 10 | 2.5mm x 5.5mm R/A | 2.4 x 1.7 x 1.0 | 6.95 | 6.25 |
| 252786 | ReliaPro | S15AB090150H0650-R | 9VDC @ 1.5A | 13.5 | 2.1mm x 5.5mm | 2.9 x 1.3 x 2.2 | 12.95 | 11.95 |
| 2215734 | Arndt | MT12-Y120100-A1 | 12VDC @ 1A | 12 | 2.1mm x 5.5mm | 2.7 x 1.5 x 1.3 | 7.95 | 6.95 |
| 1950497 | ReliaPro | GQ30-120200-BU | 12VDC @ 2A | 24 | 2.1mm x 5.5mm | 2.9 x 1.3 x 2.2 | 15.95 | 14.49 |
| 2215726 | Arndt | P03WF-120B | 12VDC @ 2.5A | 30 | 2.1mm x 5.5mm | 3.0 x 1.4 x 2.0 | 10.95 | 9.95 |
| 2229941 | ReliaPro | MTR-16109# | 24VDC @ 0.5A | 12 | 2.1mm x 5.5mm | 2.9 x 1.3 x 2.2 | 11.95 | 10.95 |
| 2208972 | ReliaPro | KSASB0242400100VU | 24VDC @ 1A | 24 | 2.1mm x 5.5mm | 3.5 x 1.7 x 1.3 | 12.95 | 11.49 |

Level VI efficiency



2211098

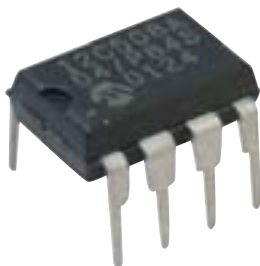
Microcontrollers

* Web Code: PAV

Microcontrollers on page 7

These popular microcontroller ICs offer a variety of advantages over others because of their low cost, detailed application notes and serial programming capabilities.

- Data BUS width: 8-bit



145040

| Part No. | Mfr. | Mfr. Part No. | Package | Memory Size/Type | Max Speed | I/O | 1 | 10 | 100 |
|----------|-----------|-----------------|---------|------------------|-----------|-----|--------|--------|--------|
| 145040 | Microchip | PIC12C508A-04/P | DIP-8 | 512 OTP | 4 MHz | 5 | \$1.05 | \$0.95 | \$0.85 |
| 223790 | Microchip | PIC12F629-I/P | DIP-8 | 1K Flash | 20 MHz | 6 | .95 | .89 | .85 |
| 2151267 | Atmel | ATTINY45-20PU | DIP-8 | 4K Flash | 20 MHz | 6 | 1.95 | 1.75 | 1.55 |
| 2151312 | Atmel | ATTINY85-20PU | DIP-8 | 8K Flash | 20 MHz | 6 | 4.49 | 3.95 | 3.49 |
| 145111 | Microchip | PIC16F84A-04/P | DIP-18 | 1K Flash | 4 MHz | 13 | 3.95 | 3.59 | 3.29 |
| 204089 | Atmel | AT89C4051-24PU | DIP-20 | 4K Flash | 24 MHz | 1 | 2.45 | 2.15 | 1.75 |
| 247038 | Microchip | PIC16F877A-I/P | DIP-40 | 8K Flash | 20 MHz | 3 | 4.95 | 4.49 | 4.25 |
| 2139111 | Atmel | ATMEGA328P-PU | DIP-28 | 32K Flash | 20 MHz | 23 | 3.59 | 3.25 | 2.95 |
| 168920 | Atmel | AT89C52-24PC | DIP-40 | 8K Flash | 24 MHz | 32 | 2.95 | 2.49 | 1.95 |
| 662637 | Atmel | AT89S52-24PU | DIP-40 | 8K Flash | 24 MHz | 32 | 2.49 | 2.25 | 1.95 |
| 248031 | Microchip | PIC18F452-I/P | DIP-40 | 32K Flash | 40 MHz | 34 | 6.95 | 5.95 | 5.59 |

* For additional products, availability and specifications visit Jameco.com and enter the Web Code in the product search box

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Featured Products

| 3 LEVELS OF SAVINGS | | |
|---------------------|--------------|-------------|
| NAME BRANDS | HOUSE BRANDS | SPECIAL BUY |

JAMECO KitPro Workbench and Electronic Kit Super Combos

* Web Code: SPC

NEW
MARKED IN PINK

Super Combo bundles are popular products that compliment each other packed into a single SKU so you can get the best bang for your buck. If you ever need a replacement or an extra, each of the components in these bundles are available separately.

| Test Equipment & Tools on pages 113-130 | | Price |
|---|---|---------|
| Part No. | Description | |
| 2244041 | Tool: Crimper, stripper, cutter, plier, screwdriver, tweezers, heat sink clip | \$33.95 |
| 2244033 | Solder: 35W iron, 6-piece tool kit, acid brush, heat sink clip, solder wick, bottle | 34.95 |
| 2244121 | DMM: Meter, alligator, minigrabber & mini clip test leads, solder starter kit | 94.95 |
| 2243911 | Arduino: Ardweeny, breadboard, 5V VREG kit, FTDI programmer, wall adapter | 57.95 |
| 2244148 | Arduino: Uno, Grove sensor starter (shield & 7 sensors), USB cable & 9V | 87.95 |
| 2244130 | Arduino: Uno, 27-piece Gravity sensor set, wall adapter, breadboard, jumper wire | 144.95 |



2244121

Raspberry Pi 3 and Accessories

* Web Code: RPI

NEW
MARKED IN PINK

The improved third generation Raspberry Pi has a 64-bit quad-core 1.2GHz ARMv8 processor, built-in 802.11n wireless LAN and Bluetooth 4.1 Low Energy (BTLE). It still has 1GB of RAM, 4 USB ports, an Ethernet port, 40 GPIO pins and full size HDMI port, and it has the same form factor as the previous Pi 2. You can make a computer, create your own games, monitor local weather conditions, or add a Pixy Cam vision sensor to create an advanced robot that can be taught to recognize objects.

| Details on page 145 | | Price |
|---------------------|--|---------|
| Part No. | Description | |
| 2237790 | Raspberry Pi 3 Model B, quad-core BCM2837, 1GB RAM, 64-bit, 1.26GHz, 4x USB ports, WiFi, Bluetooth | \$49.95 |
| 2240219 | Raspberry Pi 3 accessory bundle (power, cables and enclosure)(microSD card with OS not included) | 79.95 |
| 2223785 | Enclosure for Pi 3 with smoked black enclosure with clear top. 3.7" x 2.5" x 1.0" | 9.95 |
| 2213472 | Pure copper heat sink for Raspberry Pi CPU, self-adhesive, 0.52" x 0.43" x 0.22" | 1.95 |



2237790

JAMECO ValuePro LED Assortments in Locking Flip-Top Cases

* Web Code: LAD

NEW
MARKED IN PINK

If you use a lot of LEDs in your projects, these assortment kits offer a variety of colors and package types so you'll always have options. Whether you want clear, color diffused, or RGB of either polarity, these LED collections come in convenient 10-compartment flip-top cases so you can stay organized.

| LEDs on pages 18-22 | | Price |
|---------------------|--|--------|
| Part No. | Description | |
| 2238320 | 300-piece 5-color clear round top, (200) 3mm, (100) 5mm red, orange, yellow, green, blue | \$9.95 |
| 2238338 | 300-piece 5-color clear round top, (200) 3mm, (100) 5mm red, green, blue, fast & slow rainbow RGB | 9.95 |
| 2238346 | 300-piece 5-color clear flat top, (200) 3mm, (100) 5mm red, yellow, green, blue, white | 11.95 |
| 2259526 | 300-piece 6-color diffused round top, (200) 3mm, (100) 5mm red, orange, yellow, green, blue, white | 11.95 |
| 2238354 | 180-piece RGB & rainbow fade clear round top, (80) 3mm, (100) 5mm | 12.95 |



2259526

BANNER Convergent Photoelectric Sensor

NEW
MARKED IN PINK

VS2 Series PNP Sourcing

Sensors on page 74

- Extremely low profile self-contained miniature sensors
- Visible red sensing beam
- Operating voltage: 10-30VDC
- Material: Black ABS/acrylic lens
- Connector: 3-pin Pico QD
- Two LED indicator: Green - ON steadily (power to sensor is ON); Green - Flashing (output overload); Yellow - ON steadily (light is sensed)
- Protection against reverse polarity and transient voltages
- PNP light operate (sourcing)
- Amperage: 50mA
- Temperature: -20°C to +55°C
- Operating conditions: -20°C to +55°C
- 3-wire hookup; output load capacity to 50mA
- Contact form: SPST-PNP
- Range: 1.2"
- Cable length: 6.5'

| Part No. | Mfr. Part No. | Description | 1 | 10 |
|----------|---------------|---------------------------------------|---------|---------|
| 2231304 | VS2AP5CV30 | Convergent photoelectric sensor | \$69.95 | \$62.95 |



sparkle labs Beginner Electronics Kits

NEW
MARKED IN PINK

Getting young students started early with electronic design can provide them with fundamental knowledge and problem-solving skills which can prove to be invaluable in the future. The manual is made to be fun and engaging, so keeping minds interested will be easy. All bread-board components are reusable. Discover Arduino kit includes Discover Electronics kit, Arduino Uno R3 and USB cable.

- Experience level: beginner



2237335

Electronic Kits on pages 138-141

| Part No. | Description | No. of Pcs. | Price |
|----------|-----------------------------|-------------|---------|
| 2237343 | SunMod - Solar Hacking Kit | 3 | \$19.95 |
| 2119662 | Discover Electronics Kit v3 | 130 | 54.95 |
| 2237335 | Discover Arduino Kit | 132 | 84.95 |

JAMECO BenchPro Test Leads, Plugs and Posts

NEW
MARKED IN PINK

These are must have accessories for electronic test equipment, school labs, work benches and toolboxes. Alligator clips are great for quickly assembling circuits and connecting components to wires. Binding posts and banana plugs are another way to make reliable connections.

* Web Code: RAC



2210239

Test Leads on pages 118-119

| Part No. | Description | 1 | 10 |
|----------|--|--------|--------|
| 2237677 | (3) 21" alligator clip test leads, 24 AWG, red/black/green | \$2.95 | \$2.65 |
| 10444 | (10) 21" alligator clip test leads, 24 AWG, 5 colors | 5.95 | 5.39 |
| 2210239 | (10) 21" alligator clip test leads, 16 AWG, 5 colors | 9.95 | 8.95 |
| 2244295 | Screw type binding post, chassis mount, red | 1.25 | 1.09 |
| 2244308 | Screw type binding post, chassis mount, black | 1.25 | 1.09 |

JAMECO ReliaPro

AC-to-AC Wall Adapters

* Web Code: ABQ

NEW
MARKED IN PINK

Wall Adapters on pages 89-94 & 97

These AC to AC wall adapters convert common 120 volt AC mains down to lower voltages for use with electronic devices.

- Input voltage: 120VAC @ 60Hz
- UL/CSA rated



2227604

| Part No. | Cross Ref. No. | Output | | Output Connector (ID x OD) | Size (L" x W" x H") | Pricing | |
|----------|----------------------|-------------------|-----------|-------------------------------|------------------------|---------|--------|
| | | Voltage @ Current | Power (W) | | | 1 | 10 |
| 2230651 | ABU050050R | 5V @ 0.5A | 2.5 | 2.1mm x 5.5mm F | 2.7 x 1.9 x 1.7 | \$7.95 | \$6.95 |
| 100061 | ACU090050 | 9V @ 0.5A | 4.5 | 2.1mm x 5.5mm F | 2.7 x 1.9 x 1.7 | 8.95 | 7.95 |
| 10081 | ACU120100 | 12V @ 1A | 12 | 2.1mm x 5.5mm F | 2.5 x 2.0 x 1.6 | 9.95 | 8.95 |
| 2227604 | GPU481202000WA00 | 12V @ 2A | 24 | 2.5mm x 5.5mm F | 3.3 x 2.2 x 1.9 | 14.95 | 13.49 |
| 171408 | ACU140050C6951 | 14V @ 0.5A | 7 | 2.1mm x 5.5mm F | 2.8 x 2.0 x 1.6 | 8.95 | 7.95 |
| 2227612 | ADU160100-2.5 | 16V @ 1A | 16 | 2.5mm x 5.5mm F | 2.5 X 2.2 X 1.9 | 11.95 | 10.95 |
| 2179622 | AFU180200 | 18V @ 2A | 36 | 2.1mm x 5.5mm F | 3.4 x 2.7 x 2.1 | 12.95 | 11.95 |
| 2227639 | GPU572401500WA00-2.5 | 24V @ 1.5A | 36 | 2.5mm x 5.5mm F | 3.2 x 2.6 x 2.2 | 14.95 | 13.49 |
| 2197548 | GPU572402000WA00 | 24V @ 2A | 48 | 2.1mm x 5.5mm F | 3.3 x 2.6 x 2.2 | 15.95 | 14.49 |
| 2229386 | MGT2450P | 24V @ 2.1A | 50 | Screw terminals | 3.2 x 2.2 x 1.9 | 17.75 | 15.95 |



Linear Taper Slide Potentiometers

* Web Code: XGM

NEW
MARKED IN PINK

Potentiometers on pages 37-39



2237731

These slide potentiometers allow you to control resistance from left to right or up and down depending on installation orientation. Slide potentiometers also provide a more visual indicator of the amount of resistance applied.

| Part No. | Mfr. Part No. | Ohms | Travel | Mounting | mWatts | Volts | Tolerance | 1 | 10 | 100 |
|----------|----------------------|------|--------|----------|--------|-------|-----------|--------|--------|--------|
| 2237731 | RA2043F-20-10EB1-5K | 5K | 20mm | PC | 50 | 200 | 20% | \$1.75 | \$1.49 | \$1.25 |
| 2237749 | RA2043F-20-10EB1-10K | 10K | 20mm | PC | 50 | 200 | 20% | 1.75 | 1.49 | 1.25 |
| 2237757 | RA3043F-20-10EB14 | 10K | 30mm | PC | 50 | 200 | 20% | 1.95 | 1.75 | 1.49 |
| 2203961 | RA6043F-20-10EB1-B14 | 10K | 60mm | PC | 50 | 200 | 20% | 1.95 | 1.75 | 1.59 |



Hydraulic Arm Edge Kit

* Web Code: NRG

Electronic Kits on pages 138-141

NEW
MARKED IN PINK

Compliment your engineering, math, science, and technology learning strategy. No battery or motor required, it's powered by water! You will have total control to manipulate axes movement via lever controllers and visualize the science principles of a hydraulic system and its application.

- No soldering or batteries required
- Ages 10+
- Six axes to control
- Horizontal reach: 12.4", Vertical: 16.35"
- Base rotation: 270°, wrist: 98°, elbow: 44°
- Gripper opens 1.9" or use suction gizmo & can lift 1.75 oz.

| Part No. | Manufacturer | Mfr. Part No. | No. of pieces | Exp. Level | 1 | 5 |
|----------|--------------|---------------|---------------|------------|---------|---------|
| 2236922 | OWI | OWI-632 | 229 | Beginner | \$39.95 | \$37.95 |

Powered by Water



Handheld Digital Multimeters

* Web Code: DMM

Digital Multimeters on pages 114-116

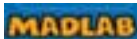
NEW
MARKED IN PINK

These digital multimeters have all the basic functions you need for measuring DC or AC voltages, current or resistance. These meters are also handheld size making them easier to take with you in your toolbox.

| Part No. | Mfr. Part No. | No. of Function | Display Count | Size (H" x W" x D") | Feature | Price |
|----------|---------------|-----------------|---------------|---------------------|-----------------------|--------|
| 2230002 | DT830D | 8 | 1999 | 5.0 x 2.8 x 1.1 | Square wave generator | \$9.95 |
| 2238397 | DT-182 | 8 | 1999 | 3.9 x 2.0 x 0.9 | Mini, battery test | 10.95 |
| 2247381 | GSM-881 | 6 | 6000 | 5.0 x 3.0 x 1.4 | LED lamp | 19.95 |



2247381



MadLab Electronic Kits

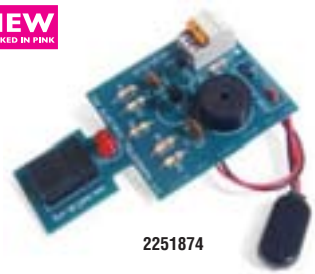
* Web Code: MLP

Electronic Kits on pages 138-141

NEW
MARKED IN PINK

MadLab offers a range of electronic kits suitable for beginners needing practice at soldering up to advanced for expert constructors. Each kit comes with a professional printed circuit board, components and full assembly instructions. Soldering tools and batteries are required.

| Part No. | Mfr. Part No. | Description | Exp. Level | Price |
|----------|---------------|--|--------------|---------|
| 2251735 | MLP107 | My Little Alien: LED eyes, 7pcs, 9V battery required | Beginner | \$14.95 |
| 2251874 | MLP109 | Electric Telegraph: practice morse, 9V bat. required | Beginner | 19.95 |
| 2251840 | MLP105 | Junior Theremin: touchless musical instrument, 9V required | Intermediate | 19.95 |
| 2251823 | MLP103 | Atom Heart: blue LED ring like Arc Reactor, 2x CR2025 required | Intermediate | 32.95 |
| 2244228 | JESC-MLP109x2 | Telegraph Super Combo, two kits & two 9V batteries | Beginner | 39.95 |



2251874



Breadboard & Jumper Wire Prototyping Super Combos

* Web Code: HAC

NEW
MARKED IN PINK

Breadboards and jumper wire go together like peanut butter and jelly. We've made it easy to buy and save. As with all our other Super Combos, the components are all available separately, so if your breadboard is now a nest of wire, it's easy to replace one or both!

Breadboards & Jumper Wires on page 131

| Part No. | Description | Price |
|----------|---|---------|
| 2244105 | 70 pc wire jumper kit with 14 lengths, 10 colors and 400 point breadboard | \$10.95 |
| 2134993 | 70 pc wire jumper kit with 14 lengths, 10 colors and 830 point breadboard | 12.95 |
| 2244113 | 350 pc wire jumper kit with 14 lengths, 10 colors and 3220 point breadboard | 43.95 |
| 2244084 | 170 point breadboard with single center terminal strip, 1.3"x1.9", red | 2.95 |
| 2244092 | 170 point breadboard with single center terminal strip, 1.3"x1.9", blue | 2.95 |
| 2155452 | 170 point breadboard with single center terminal strip, 1.3"x1.9", white | 2.95 |



2244113

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High Power Enclosed Power Supplies

*Web Code: HHP

RSP-1500

These compact power supplies are rated for household appliances, industrial automation machinery, industrial control systems, mechanical and electrical equipment and electronic instruments. Built-in Power Factor Correction function.

- No load power consumption <0.5W
- Cooling by free air convection
- Compact 1U low profile

| Part No. | Mfr. Part No. | Output | | Size (L" x W" x H") | Ripple&Noise (mV p-p)* | Load Reg. (±%) | Line Reg. (±%) | Eff. (%) | Pricing | |
|----------|---------------|-------------------|----------|------------------------|---------------------------|-------------------|-------------------|-------------|----------|----------|
| | | Voltage @ Current | Pwr. (W) | | | | | | 1 | 10 |
| 1585717 | RSP-1000-24 | +24V @ 0-40A | 960 | 11.6 x 5.0 x 1.6 | 150 | 0.5 | 0.5 | 88 | \$206.95 | \$206.95 |
| 1585725 | RSP-1000-48 | +48V @ 0-21A | 1008 | 11.6 x 5.0 x 1.6 | 150 | 0.5 | 0.5 | 90 | 206.95 | 206.95 |
| 694938 | RSP-1500-24 | +24V @ 0-63A | 1512 | 10.9 x 5.0 x 3.3 | 150 | 0.5 | 0.5 | 90 | 303.95 | 303.95 |
| 694954 | RSP-1500-48 | +48V @ 0-32A | 1536 | 10.9 x 5.0 x 3.3 | 200 | 0.5 | 0.5 | 91 | 303.95 | 303.95 |
| 2106714 | RSP-2400-24 | +24V @ 0-100A | 2400 | 10.9 x 7.0 x 2.5 | 150 | 0.5 | 0.5 | 90 | 384.95 | 384.95 |
| 2106722 | RSP-2400-48 | +48V @ 0-50A | 2400 | 10.9 x 7.0 x 2.5 | 200 | 0.5 | 0.5 | 91.5 | 384.95 | 384.95 |
| 2108921 | RSP-3000-48 | +48V @ 0-62.5A | 3000 | 10.9 x 7.0 x 2.5 | 200 | 0.5 | 0.5 | 90.5 | 417.95 | 417.95 |

*Primary output



Industrial Table-Top Power Supplies

- LED indicator for power on, fully enclosed plastic case, Class I power with earth pin (3-pole AC inlet), Universal AC input (full range 85-264 VAC)
- Energy Level VI, no load power consumption (<0.075W for GST60A, <0.15W for GST90A/120A)
- Operating temp: -30 to +70°C
- 3-year warranty

*Web Code: DDZ

2223460

| Part No. | Mfr. Part No. | Output | | Output Connector (ID x OD)†† | Input VAC @ Hz | Size (L" x W" x H") | ↑DC Cords | Pricing | |
|----------|---------------|-------------------|----------|---------------------------------|-------------------|------------------------|--------------|---------|---------|
| | | Voltage @ Current | Pwr. (W) | | | | | 1 | 10 |
| 2224382 | GST60A12-P1J | +12V @ 5A | 60 | 2.1 x 5.5mm F2 | 90-264 @ 47-63 | 4.9 x 2.0 x 1.2 | 3.3' | \$16.95 | \$14.49 |
| 2224411 | GST60A24-P1J | +24V @ 5A | 120 | 2.1 x 5.5mm F2 | 90-264 @ 47-63 | 4.9 x 2.0 x 1.2 | 3.3' | 16.95 | 14.49 |
| 2223460 | GST90A12-P1M | +12V @ 6.6A | 79.2 | 2.1 x 5.5mm F2 | 90-264 @ 47-63 | 5.7 x 2.4 x 1.3 | 3.3' | 26.95 | 23.95 |
| 2223494 | GST90A24-P1M | +24V @ 3.75A | 90 | 2.1 x 5.5mm F2 | 90-264 @ 47-63 | 5.7 x 2.4 x 1.3 | 3.3' | 26.95 | 23.95 |
| 2223582 | GST120A12-R7B | +12V @ 8.5A | 98.4 | 4-pin DIN male | 85-264 @ 47-63 | 6.6 x 2.6 x 1.4 | 4' | 40.95 | 37.49 |
| 2223646 | GST120A24-P1M | +24V @ 5A | 120 | 2.5 x 5.5mm F2 | 85-264 @ 47-63 | 6.6 x 2.6 x 1.4 | 4' | 40.95 | 37.49 |
| 2223611 | GST120A24-R7B | +24V @ 5A | 120 | 4-pin DIN M | 85-264 @ 47-63 | 6.6 x 2.6 x 1.4 | 4' | 40.95 | 37.49 |
| 2226468 | GST160A48-R7B | +48V @ 3.34A | 160 | 4-pin DIN M | 85-264 @ 47-63 | 6.9 x 2.8 x 1.4 | 4' | 48.95 | 45.95 |

† AC cord is not included, we recommend 3-conductor power cord (P/N 38050, pg 102) †† F2: Female center positive

AC-to-DC Interchangeable Wall Adapters

*Web Code: NBH

When traveling internationally, keep all your devices charged up with these adapters with interchangeable AC clips. AC Clips sold separately except 2202790 which includes: US, UK, EU, AUS plugs. See page 92 for AC plug clips.

| Part No. | Mfr. Part No. | Voltage @ Current | Power (W) | Output Connector | Size (H" x W" x D") | 1 | 10 |
|----------|----------------|-------------------|-----------|------------------|---------------------|--------|--------|
| 228785 | PSA11R-033 | 3.3V @ 2A | 6 | 2.1mm x 5.5mm | 3.3 x 1.8 x 1.3 | \$8.95 | \$7.95 |
| 2202790 | TR10R050-1 | 5V @ 1.6A | 8 | 2.1mm x 5.5mm | 2.8 x 1.7 x 1.3 | 6.95 | 6.25 |
| 2202896 | PSA21R-090 | 9V @ 1.67A | 15 | 2.1mm x 5.5mm | 3.9 x 2.3 x 1.2 | 9.95 | 8.95 |
| 2258689 | PSAC12R-120-R# | 12V @ 1A | 12 | 2.1mm x 5.5mm | 2.8 x 1.9 x 1.2 | 15.95 | 14.49 |
| 228849 | PSA21R-120 | 12V @ 1.67A | 20 | 2.1mm x 5.5mm | 3.9 x 2.3 x 1.2 | 12.95 | 11.49 |
| 2082345 | GE12I24-P1J | 24V @ .63A | 15 | 2.1mm x 5.5mm | 2.8 x 1.6 x 1.5 | 9.49 | 8.49 |

#Level VI CEC



2202790

Will Call Office Hours
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CONTACT INFORMATION

Order Desk

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The Jameco RobotStore

Website: www.RobotStore.com

Club Jameco

Website: www.ClubJameco.com